



The Fish Health Section (FHS) of the Asian Fisheries Society (AFS) proudly presents

# The Seventh Symposium on Diseases in Asian Aquaculture



June 22-26, 2008 Taipei, Taiwan http://homepage.ntu.edu.tw/~daaseven/



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#### **Second Official Announcement**

On behalf of the Fish Health Section (FHS) of the Asian Fisheries Society (AFS), we cordially invite you to the Seventh Symposium on Diseases in Asian Aquaculture (DAA VII) to be held in Taipei, Taiwan from June 22<sup>nd</sup> to 26<sup>th</sup>, 2008.

The DAA Symposia are a series of triennial meetings of the world's leading scientists and students working in aquatic animal health, where all participants share their latest research findings, exchange ideas and establish new collaborations. To meet the current interest in disease control, DAA VII will also offer two "extra curricular" seminar/workshops on risk analysis and on recent advances on fish and shellfish immunology. More detailed information will be updated in the DAA VII website: http://homepage.ntu.edu.tw/~daaseven/. Meanwhile, some of the conference's other highlights are described below.

We look forward to welcoming you to the modern, dynamic city of Taipei and seeing you at the conference!

Takashi Aoki, Chair, FHS Executive Committee Melba B. Reantaso, Chair, International Scientific Program Committee Chu-Fang Lo, Chair, Local Organizing Committee.

### **DAA VII Important Dates**

Call for submission of abstracts: September 1, 2007 Deadline for submission of abstracts: December 10, 2007 Early bird registration: January 1, 2008~March 31, 2008 Deadline for early bird registration: March 31, 2008

### The Symposium/Overview

The Fish Health Section (FHS) of the Asian Fisheries Society (AFS) proudly announces the "Seventh Symposium on Diseases in Asian Aquaculture (DAA VII)" with the theme "Communication, Co-operation and Co-ordination: key issues in aquatic animal health management" to be held on 22-26 June 2008 in Taipei, Taiwan. The 8th Triennial General Meeting (TGM-8) of the FHS will also be held in conjunction with DAA VII.

6 June 2008 in Taipei, Tai

Following DAA VII, there will be a 2-3 day special seminar on recent advances in the immunology of fish and shellfish. As part of the continuing professional educational program of the FHS, there will also be a 3-day training workshop on pathogen risk analysis for aquatic animal movement.

DAA VII participants will also be offered a wide choice of technical and cultural tours.

#### (d)

The Fish Health Section (FHS) of the Asian Fisheries Society (AFS), was founded in May 1989, and it is tasked with publishing both academic and technical information on aquatic animal health as well as promoting the development and use of standardized, internationally accepted techniques for the detection and diagnosis of diseases of aquatic animals of regional importance. The FHS also holds a triennial "Symposium on Diseases in Asian Aquaculture" (DAA) where members and aquatic animal health professionals meet to discuss broad issues and specific topics related to aquatic animal health.

There have been six previous Symposia, the first one in Bali, Indonesia, 1990; second in Phuket, Thailand, 1993; third in Bangkok, Thailand, 1996; fourth in Cebu, Philippines, 1999; fifth in Gold Coast, Australia, 2002; and the sixth in Colombo, Sri Lanka, 2005. Each of these Symposia brought together more than 200 aquatic animal health scientists, students, government researchers and industry personnel from some 30 countries to discuss disease related problems affecting aquaculture production and to find solutions for them. Please visit the FHS website at http://www.fhs-afs.org/ for more detailed information.

The Seventh Symposium – DAA VII – is expected to attract many participants from all around the world to discuss their work and develop strategies for improving aquatic animal health in Asia. DAA VII will be held in Taiwan, where the island's friendly people, pleasant sub-tropical climate, convenient transportation, modern environment, and excellent conference facilities will all help to make the conference a wonderful and fruitful experience for all participants.



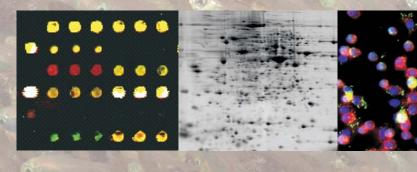
### Theme of the Symposium

The Fish Health Section (FHS) of the Asian Fisheries Society (AFS) proudly announces the "Seventh Symposium on Diseases in Asian Aquaculture (DAA VII)" with the theme "Communication, Co-operation and Co-ordination: core issues in aquatic animal health management". In a series of scientific sessions across four days, internationally recognized keynote speakers will examine the current trends in the study of aquatic disease.

Over the past three decades, aquaculture products have become the fastest growing food source all over the world. As the aquaculture industry has expanded, intensified and diversified, numerous aquatic animal diseases have emerged and become widespread as a result of global trade and modern transportation systems. The impact of these trans-boundary aquatic diseases on the industry and on society in general, will need to be mitigated by improving current levels of health management, bio-security, risk assessment, and epidemiology. Consequently, in addition to investigating the causative pathogens themselves, another critical task in the field of aquatic animal health is to effectively integrate and apply these diverse aquaculture-related resources.

In the spirit of our theme of Communication, Co-operation and Co-ordination, this conference aims to provide a platform for international biologists, pathologists, fisheries scientists, veterinarians, breeders and policy makers to interact and exchange the latest ideas and techniques in the business of aquaculture, especially with respect to Asia. DAA VII will also include special sessions that focus on how breeders and biologists are contributing concepts and tools to our understanding of the molecular basis of aquatic disease, and on how management policies affect the aquaculture industry.

In addition, there will be sessions that focus on how the rapid developments in the fields of genomics and bioinformatics are changing our interpretation of aquatic diseases. These sessions will provide a better appreciation of pathogenomics and its impact on the aquatic organisms, and will cover both the fundamental and practical aspects of this multidisciplinary subject area.





# The Symposium Keynote Topics

Under the broad heading of "key issues in aquatic animal health management", the Symposium anticipates 15 keynote addresses by leading world experts, 12 invited lectures, and around 60 contributed oral presentations by researchers, scientists, farmers and students. There will be a lot of space for~150 posters.

22-26 June 2008 in Taipei, Taiwan

# **Topics:**

- State of the world aquaculture
- Global perspectives in managing aquatic animal health
- Emerging issues in aquatic animal health management
- Epidemiology, detection and diagnosis of pathogens in fish, shellfish, molluscs and their environment
- Biosecurity and containment in aquaculture systems
- Recent developments in genomics, proteomics and bioinformatics: implications for aquatic animal diseases
- Immunology/Disease resistance/Host-pathogen interaction
- Microbiology of aquatic animal pathogens and antimicrobial peptides
- Disease of aquatic invertebrates -Shrimp health
- Disease of aquatic invertebrates -Molluscs health
- Disease of aquatic vertebrates -Finfish health
- Pathogen risk analysis, probiotics, therapeutics and other fields
- The way forward
  - o Aquatic animal health management
  - o International trade, aquatic animals and risk

## Seminar/Workshop Topics

- Recent advances in the immunology of fish and shellfish
- Pathogen risk analysis for aquatic animal movement





#### -26 June 2008 in Taipei, Taiwan

# **Program Overview**

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Sunday 22 Jun	le
15:30-18:00	Registration
19:00-	DAA VII Ice-breaker (Cocktail)
Monday 23 Jur	ne
07:30-	Registration
08:30-08:50	<b>Opening Session</b> Opening Remarks Welcome Remarks
08:50-09:20	Opening Keynote Address 1 Can aquaculture meet future global aquatic food demand? Rohana P. Subasinghe (Sri Lanka)
09:20– <mark>09:5</mark> 0	Opening Keynote Address 2 Emerging issues and developments in aquatic animal health Eva-Maria Bernoth (Australia)
09:50-10:20	Opening Keynote Address 3 Status of shrimp diseases and advances in shrimp health manage- ment Donald V. Lightner (USA)
10:20-10:40	Coffee Break
10:40 -12:40	Session 01: Epidemiology, detection and diagnosis of pathogens in fish, shellfish, molluscs and their environment
10:40 -11:05	Keynote Address 1 Strain variation – diagnosis, pathology and epidemiology Peter Walker (Australia)
11:05 - 11:25	Invited Paper 1 Aquatic epidemiology and surveillance: is it useful to aquatic animal disease emergencies? Flavio Corsin (Italy/Vietnam)
11:25 - 12:40	Contributed Papers 1 - 5
12:40 - 13:30	Lunch
13:30 - 15:30	Session 02: Biosecurity, risk assessment and containment in aqua- culture systems
13:30 - 13:55	Keynote Address 2 Pathogen risk analysis: experiences from 9 case studies – applica- tions and limitations Ben Diggles (Australia), JR Arthur (Canada), Melba Reantaso (Philippines)
13:55 – 14:15	Invited Paper 2 Evolution and lessons learned: Asia-Pacific surveillance and report- ing of aquatic animal diseases – can researchers contribute to the process? C.V. Mohan (India)
14:15 - 15:30	Contributed Papers 6 - 10
15:30 - 16:00	Coffee Break

## 7th Symposium on Diseases in Asian Aquaculture 22-26 June 2008 in Taipei, Taiwan



16:00 - 18:00	Session 03: Using genomics, proteomics and bioinformatics to understand aquatic animal diseases
16:00 – 16:25	Keynote Address 3 What have we learned from the genomics and transcriptomics of white spot syndrome virus? Just Vlak (The Netherland)
16:25 – 16:45	Invited Paper 3 Genes in response to infection in Chinese shrimp, Fenneropenaeus chinensis, through cDNA microarray Jianhai Xiang (China)
16:45 - 18:00	Contributed Papers 11 – 15
18:30 - 21:00	Student Reception/Special Program
Tuesday 24 Ju	ne
08:15 - 10:00	Session 04: Immunology/Disease resistance/Host-pathogen interac- tion
08:15 - 08:40	Keynote Address 4 <i>Molecular immunity in fish-pathogen interaction</i> Takashi Aoki (Japan)
08:40 - 09:00	Invited Address 4 Protection of fish betanodavirus from cellular RNA interference Jimmy Kwang (Singapore)
09:00 - 10:00	Contributed Papers 16 – 20
10:00 - 10:30	Coffee Break
10:30 - 12:30	Session 05: Diseases of aquatic invertebrates -Shrimp health (I)
10:30 - 10:55	Keynote Address 5
	The role and function of the prophenloxidase activating system Kenneth Soderhall (Sweden)
10:55 – 11:15	Invited Address 5 The use of double stranded RNA knock-down technology to study shrimp immune-responses against to microbial pathogens Ikuo Hirono (Japan)
11:15 - 12:30	Contributed Papers 21 - 25
12:30 - 13:30	Lunch
13:30 - 15:30	Session 06: Diseases of aquatic invertebrates -Shrimp health (II)
13:30 - 13:55	Keynote Address 6
1	Progress with work on antimicrobial peptides in the shrimp Penaeus monodon
	Anchalee Tassanakajon (Thailand)
13:55 – 14:15	Invited Paper 6 Development of the Shrimp Industry in the western Indian Ocean – a holistic approach of vertical integration, from domestication and bi- osecurity to product certification Marc Le Groumellec (France/ Madagascar)
14:15 - 15:30	Contributed Papers 26 - 30
15:30 - 16:00	Coffee Break

## 7th Symposium on Diseases in Asian Aquaculture 22 26 June 2008 in Taipei, Taiwan

16:00 - 18:00	Session 07: Emerging issues and emerging aquatic animal diseases
16:00 - 16:25	Keynote Address 7 Increasing awareness of the global importance of ranavirus diseases of amphibians Barry Hill (United Kingdom)
16:25 - 16:45	Invited Paper 7 <i>Emerging aquatic animal diseases in China</i> Yulin Jiang (China)
16:45 - 18:00	Contributed Papers 31 – 35
18:00 - 19:00	FHS Member Reception
19:00 - 20:30	FHS Eight Triennial General Meeting (TGM-8)
Wednesday 25	June
08:15 - 10:00	Session 08: Diseases of aquatic vertebrates - Finfish health (I)
08:15 - 08:40	Keynote Address 8 Recent developments in the study and surveillance of Koi Herpesvi- rus (KHV) in Asia
00.40 00.00	Gilda Lio-Po (Philippines)
08:40 - 09:00	Invited Paper 8 Diseases of cultured catfish in Mekong Delta area Nguyen Huu Dung (Vietnam)
09:15 - 10:00	Contributed Papers 36 – 40
10:00 - 10:30	Coffee Break
10:30 - 12:30	Session 09: Diseases of aquatic vertebrates - Finfish health (II)
10:30 - 10:55	Keynote Paper 9 Significant and Emerging Parasitic Diseases of Finfish Kazuo Ogawa (Japan)
10:55 – 11:15	Invited Paper 9 Bacterial diseases of major economic importance in the Asia-Pacific region Lauke Labrie (Singapore)
11:30 - 12:30	Contributed Papers 41 – 45
12:30 - 13:30	Lunch
13:30 – Late	Free Afternoon (Social Activity)
Thursday 26 Ju	
08:15 - 10:00	Session 10: Vaccination technologies, farm level health management, better management practices
08:15 - 08:40	Keynote Address 10 The NNV infection and its prevention in the larvae of Epinephelus coioides by vaccine technology Huey-Lang Yang (Taiwan)
08:40 - 09:00	Invited Address 10 Improving farm level health management: lessons learned from In- dian shrimp aquaculture N.R. Umesh (India)

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09:00 - 10:00	Contributed Papers 46 – 50
10:00 - 10:30	Coffee Break
10:30 - 12:30	Session 11: Diseases of aquatic invertebrates - Mollusc health (I)
10:30 - 10:55	Keynote Address 11 <i>Current trends in the study of molluscan diseases</i> Brian Jones (Australia)
10:55 - 11:15	Invited Paper 11 Biodefense of mollusca Speaker (TBI)
11:15 - 12:30	Contributed Papers 51 - 55
12:30 - 13:30	Lunch
13:30 - 15:30	Session 12: Diseases of aquatic invertebrates - Mollusc health (II)
13:30 - 13:55	Keynote Address 12 Fungal diseases of abalone Kishio Hatai (Japan)
13:55 – 14:15	Invited Paper 12 Molluscan diseases: outcome of a health survey in 8 countries in Asia-Pacific
	Speaker from Thailand/Sri Lanka TBI or Diseases of cultured oysters
14.15 15.20	Speaker from South Korea?/TBI
14:15 - 15:30	Contributed Papers 56 – 60
15:30 - 16:00	Coffee Break
16:00 - 17:40 16:00 - 16:25	Session 13: The way forward
10:00 - 10:25	Closing Keynote Address 1 Driving forces for aquaculture and scenarios towards 2030 Kjersti Gravningen (Norway)
16:25 - 16:50	Closing Keynote Address 2
	Disease transmission risks from prawn products exported for hu- man consumption Timothy Flegel (Thailand)
16:50 - 17:15	Closing Keynote Address 3 Global Perspectives in Managing Aquatic Animal Health Melba Reantaso (Philippines)
17:15 – 17:45	Facilitated Plenary Discussion and Closing Ceremony Chair: Rohana P. Subasinghe (Sri Lanka)
19:30 – Late	Symposium Banquet

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### **Venue and Accommodation**

DAA VII will be held in Taipei, Taiwan's largest city, at the Howard International House Taipei (HIHT) near National Taiwan University (NTU). HIHT's international conference room and meeting facilities are designed to accommodate 400 persons. There are several budget to luxury hotels in the immediate area where participants can stay, often at special NTU discounted rates.

22-26 June 20



The National Taiwan University campus



The conference venue is in the dynamic Gong Guan district of Taipei



The conference room

### **Conference Tours**

Geographically, Taiwan is a sub-tropical island south of Japan and east of China. Just 13,900 square miles in size, it has more than 250 mountains, some of which are over 10,000 feet high. As a result, Taiwan boasts a wide variety of natural landscapes from sea shore to mountain, from tropical to alpine, as well as a correspondingly diverse fauna and flora, many of which are endemic to the region. Ethnically, most of Taiwan's 23 million people are descended from immigrants who arrived from different parts of China at least half of a century ago, but there are also flourishing aboriginal cultures, which make for a diversity of life styles. To encourage conference participants to better enjoy the many natural wonders, ancient artifacts, cultural legacies, and the wide variety of traditional cuisine, we propose two alternative conference Tours on Wednesday afternoon, either (1) the National Palace Museum followed by dinner in Shihlin, or (2) Yangmingshan National Park followed by dinner in a Park restaurant.



Taipei 101-The world's tallest building (Photo provided by the Tourism Bureau, Ministry Of Transportation & Communication, Taiwan)



The National Palace Museum (Photo provided by the Tourism Bureau, Ministry Of Transportation & Communication, Taiwan)



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Yangmingshan National Park (Photo provided by the Yangmingshan National Park Headquarters)

#### FOR FURTHER INFORMATION, please contact the following:

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Conference Secretary Email: daaseven@gmail.com Dr. Huey-Lang Yang (National Cheng Kung University) Vice-Chairperson, Local Organizing Committee E-mail: hlyang@mail.ncku.edu.tw

Tel : +886-2-23633562 Fax : +886-2-23638179

#### **REGISTRATION FEES**

Before 31 March 2008	After 31March 2008
USD\$300	USD \$350
USD\$400	USD \$450
USD\$175	USD \$175
	USD\$300 USD\$400

STUDENT TRAVEL AWARD IS AVAILABLE!

#### **HOTEL RATES**

Hotel Rates Types	<b>Cost</b> (per night)			
	Estimate US Dollar			
Lu-ming Guest House				
two person two-bed room	US\$38			
four person four-bed room	US\$44			
Howard International House Taipei				
regular one-bed room	US\$56			
deluxe one person one-bed room	US\$97			
deluxe two person one-bed room	US\$104			
deluxe one person two-bed room	US\$97			
deluxe two person two-bed room	US\$104			
Leader Hotel Taipei				
regular one person one-bed room	US\$77			
deluxe one person one-bed room	US\$97			
regular two person two-bed room	US\$90			
Howard Plaza Hotel Taipei				
deluxe one person one-bed room	US\$145			
deluxe two person two-bed room	US\$159			

**NOTE:** Currency exchange is estimated at US\$1 = NT\$32

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