

## DAA VIII - 2011 MANGALORE

**The Eighth Symposium on Diseases in Asian Aquaculture will be held in Mangalore, India during 21-25 November 2011.**

The symposium is being organized by the Fish Health Section of the Asian Fisheries Society and College of Fisheries, Karnataka Veterinary, Animal and Fisheries Sciences University, Mangalore. The theme of the symposium is “**Fish Health for Food Security**”.

In a series of scientific sessions across four days, internationally recognized keynote speakers will examine the current trends in aquatic disease in Asian and global aquaculture, disease loss, emerging diseases/area in health management, training and health related disease issues.



**Figure 1 Mangalore town hall (Source: Wikimedia commons)**

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. Aquaculture products, the fastest growing food source, have also become a source of

diseases. 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 management strategies for sustainable aquaculture.



**Figure 2 Mangalore crab (Source: Wikimedia commons)**

In the spirit of our theme, *Fish Health for Food Security*, 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.

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 are expected 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.

Participants will also be offered a wide choice of technical and cultural tours. Mangalore is a coastal city in the state of Karnataka, well known for world famous Belur and Halebeedu temples, Sixty feet monolithic statue of Gomateshwara at Shravanabelgola, Mysore palace and Bangalore, the silicon valley of India- all these places within the range of 250-300 kms from Mangalore.

### DAA VI PROCEEDINGS

Participants who have not yet received the proceedings please kindly check with Dr Suppalak Lewis (suppalak68@yahoo.com) by email so that the CD-Rom of the proceedings can be sent as soon as possible. For those who are interested to buy a copy please contact Dr Suppalak Lewis for the details.

### STATUS OF THE DAAVII PROCEEDINGS

At the Annual General Meeting during DAAVII it was decided to continue with the publication of our own conference proceedings.

In an effort to speed production it is the intention of both the FHS Executive Committee and the Editorial Committee to publish the finalized papers on the society website as soon as possible, but to continue with the editorial process to also produce a bound version of the proceedings.

**Dr Brian Jones.**

### **NACA APPOINTS A NEW COORDINATOR FOR AQUATIC ANIMAL HEALTH PROGRAMME**

Dr. Eduardo M. Leño is the newly appointed Coordinator of the Aquatic Animal Health Programme of Network of Aquaculture Centres in Asia-Pacific (NACA). He assumed the post on 1<sup>st</sup> April 2010. He currently manages the Regional Aquatic Animal Health Programme including the on-going aquatic animal disease surveillance and reporting system among NACA member countries. He also serves as secretary to the Regional Advisory Group on Aquatic Animal Health Management.



Dr. Leño used to work at the Fish Health and Nursery Sections of SEAFDEC Aquaculture Department in Tigbauan, Iloilo, Philippines (1989-2001). He has assisted and conducted studies on fish virology/bacteriology, aquatic mycology and fish immunology. He then moved as a post-doctoral research fellow at the Taiwan Fisheries Research Institute in 2002, then to National Taiwan Ocean University in 2004 (where he also worked concurrently as Adjunct Professor) under the supervision of Dr. I Chiu Liao.

Dr. Leñaño can be contacted at [eduardo@enaca.org](mailto:eduardo@enaca.org).

**CONFERENCES**

**5-9 September 2010; 6th International Symposium on Aquatic Animal Health; Tampa, Florida USA:**

Sponsored by the American Fisheries Society - Fish Health Section, with additional support from the International Association for Aquatic Animal Medicine, the National Shellfisheries Association, the Japanese Society for Fish Pathology, the European Association of Fish Pathologists, and the Aquatics Committee of the American Veterinary Medical Association.

The symposium will provide a stimulating and inclusive forum for exchange of current information on research, management and policy issues related to health and diseases of aquatic animals, whether wild, farmed, or held on exhibit. The broadest range of animals is considered, from invertebrates, to fish, amphibians, chelonians, and marine mammals. This important international gathering will be used to facilitate discussion and action on issues of international importance.

Key themes of the symposium will include:

- (i) infectious diseases in aquaculture,
- (ii) planning and emergency response for aquatic animal health emergencies,
- (iii) interaction of diseases between wild and farmed stocks, and
- (iv) outcomes of environmental stress including effects of contaminants, and regional and global habitat alteration.

For more information refer to the

**PUZZLE:**

When the sum of the digits of a number will divide exactly by nine, then the number itself will also divide by nine - for example 2673:  $2 + 6 + 7 + 3 = 18$ . With this in mind, place the following digits into the grid so that each horizontal and vertical line, when read forwards and backwards, will divide exactly by nine.

- 1,1,1
- 2,2,2
- 3,3,3,3
- 4,4,4,4
- 5,5
- 6,6
- 7
- 8,8,8
- 9,9,9


This is a very old puzzle, predating “Sudoku” and from the days when there were no electronic calculators.

conference website:  
<http://aquaticpath.epi.ufl.edu/isaah6/>

destination.

**26-27 October, 2010, Second International Congress & Exhibition on Aquatic Animal Health Management and Diseases” in Tehran-Iran.**

Organised by the Veterinary Council, I.R. Iran, as Organizer, with the collaboration of Contemporary Conference Organizers as co-organizer and with the support of Iran Veterinary Organization, Faculty of Veterinary Medicine of University of Tehran, Iranian Fisheries Research Organization and Iran Fisheries Organization.



Topics of the Conference consist of:

- Diseases, Prevention and Treatment
- Nutritional Health Management
- Water Quality Management
- Health Management in Farms

To receiving more detailed information you are kindly invited to refer to our website:

[http://www.icaahmd.com/call\\_for\\_paper.php](http://www.icaahmd.com/call_for_paper.php) and if you need any additional information please do not hesitate to contact the congress secretariat.

**17-21 January 2011. WAS Asia-Pacific Aquaculture Conference (WAS-APC)** will be held in Kochi (Cochin), India. The technical session dates for the WAS conference are 17-20 January.

Kochi, besides being a significant centre of Indian aquaculture, is a fascinating and beautiful tourist

A significant component of the **WAS-APC** event will be “**Giant prawn 2011**”. GP2011 will be a landmark opportunity to review the status of freshwater prawn farming worldwide and discuss the future of this \$2 billion/year industry.

The brochure for APA2011 (incorporating GP2011) will be available from the World Aquaculture Society (WAS). This brochure will explain the procedures for registration and issue a call for papers for both events.

The scientific programme for Giant Prawn 2011 consists of a three-day invited paper session (18, 19 & 20 January 2011), plus a one-day parallel session for unsolicited (contributed papers) on freshwater prawn farming (date to be announced).

Speakers for the main session include Nesar Ahmed (Bangladesh), Janet Brown (UK), Michael Frinsko (USA), Ilan Karplus (Israel), Spencer Malecha (Hawai’i), Peter Mather (Australia), C. Mohanakumuran Nair (India), M.C. Nandeesh (India), Uthairat Nacorn (Thailand), Michael New (UK), Nguyen Thanh Phuong (Vietnam), K.R. Salin (India), Amir Sagi (Israel), James Tidwell (USA), Wagner Valenti (Brazil), Patricia Moraes-Valenti (Brazil), Md. Abdul Wahab (Bangladesh) and Miao Weimin (China). Discussions about the contributions of several further invited speakers are on-going. The topics to be presented in the invited session of GP2011 include biology, genetics, grow-out and hatchery rearing technology, health management, and

post-harvest handling, marketing and economics.

The parent APA2011 meeting, which is being organised by the Asian Pacific Chapter of WAS, will also provide the usual comprehensive rainbow of conference topics and social events, together with an important exhibition. Those who attended the last event organised by this chapter in Kuala Lumpur will already know how successful it was.

Further details from:  
<http://www.apa2011.org/>

### **21-25 April 2011. 9th Asian Fisheries and Aquaculture Forum (9<sup>th</sup> AFAF), to be held in Shanghai.**

The theme of the forthcoming forum is **Better Science, Better Fish, Better Life**. At the same time as the Forum, the 9th International Symposium of Tilapia Aquaculture (9th ISTA) and the 4th International Symposium on Stock Enhancement and Sea Ranching (4th ISSESR) will be organized as part of the 9th AFAF, an international feat in the field of Fisheries and Aquaculture which hopes to attract 1,500 participants from abroad.

Further details from  
[http://www.9afaf.org/Congress\\_Invitation.html](http://www.9afaf.org/Congress_Invitation.html)

**26- 30 September 2011 VIII International Symposium on Fish Parasites;; Viña del Mar, Chile:** This symposium will be an important forum for the discussion and distribution of new findings in this rapidly expanding field. The theme of the conference is "Fish Parasitology: from Classical Taxonomy to Holistic Approach".

The organizers hope to develop an

exciting scientific program that will provide an update in our field of research. They are sure that the diversity of themes in the dynamic field of fish parasitology will be the most favorable platform for strong and positive collaborations between fish parasitologists.

An intense program is scheduled to include preliminary talks, mini symposiums, and oral presentations. Poster sessions will be an important aspect of 8th ISFP. Competitive awards for students and postdoctoral scientists from developing countries will be offered. In addition, a diverse and enjoyable program of social activities will also be provided in order to showcase the best of Chilean traditions and culture.

See the conference website at:  
<http://www.8isfp.com/>.

### **USEFUL INTERNET SOURCES**

#### **e-Learning Course on Aquatic Animal Health**



SEAFDEC Aquaculture Department (pictured) is offering its 7th session of the online course on the Principles of Health Management in Aquaculture or AquaHealth Online from July 26 to December 17, 2010.

The course has graduated 119 elearners from 19 countries in Asia, Europe and the US. Conducted entirely via the Internet, the course is designed for farm managers/operators, farm

## Fish Health Section Asian Fisheries Society

technicians, instructors, students, and other interested parties involved in aquaculture and fisheries.

The course aims to enhance the learners' knowledge and skills on fish health management in aquaculture. After the course, the learners shall be able to:

- 1) recognize diseased shrimps and fish; 2) identify the cause of the disease;
- 2) explain how a disease develops;
- 3) apply preventive and control measures to lessen the risks posed by the disease; and
- 4) use appropriate techniques for the preparation of samples for disease diagnosis.

AquaHealth Online covers up-to-date information on tropical fish and crustacean diseases, causative agents, disease prevention and control. The course will run for 20 weeks divided into 12 modules, as follows:

- Module 1: Impact of Disease Development in Aquaculture
- Module 2: Viral Diseases
- Module 3: Bacterial Diseases
- Module 4: Fungal Diseases
- Module 5: Parasitic Diseases and Pests
- Module 6: Nutritional Diseases
- Module 7: Environmental and other Non-infectious Diseases
- Module 8: Harmful and Toxic Algae

- Module 9: Histology as a Tool in Disease Diagnosis
- Module 10: Serology and Molecular Techniques in Disease Diagnosis
- Module 11: Immunity and Biological Methods of Disease Prevention and Control
- Module 12: Physical, Environmental, and Chemical Methods of Disease Prevention and Control

Training fee: USD 500.00

For further information please contact:  
Training and Information Division  
SEAFDEC Aquaculture Department  
Tel No. : (63-33) 511-9172  
Fax No. : (63-33) 511- 8709  
Email:

[training@aqd.seafdec.org.ph](mailto:training@aqd.seafdec.org.ph)  
[kgcorre@seafdec.org.ph](mailto:kgcorre@seafdec.org.ph)

or visit website:

<http://lms.seafdec.org.ph/html/index.html>

### ANSWER TO PUZZLE

7	2	6	8	4
3	6	1	5	3
9	2	8	3	5
4	8	3	1	2
4	9	9	1	4

FHS Enewsletter editor B. Jones  
[brian.jones@agric.wa.gov.au](mailto:brian.jones@agric.wa.gov.au)