



Electronic Newsletter

Fish Health Section/Asian Fisheries Society

Issue No. 4 May 2004

Sixth Symposium on Diseases in Asian Aquaculture (DAA VI)

Preparations are well underway for **DAA VI in Colombo, Sri Lanka on 25-28 October 2005**. Please mark your calendars. The Local Organising Committee is headed by FHS Execom Member Mangalika Hettiarachchi; the International Program Committee is lead by RP Subasinghe of FAO.

Detailed announcement will be released through a website exclusively dedicated for DAAVI to be launched in June 2004.

The final theme for DAAVI will be decided at the end of this month. Three themes selected by the International Program Committee were:

**From science to action: preventing emerging epidemics
Opportunities and challenges in aquatic animal health
Aquatic animal health: facing new challenges**

Member Updates

Belated Congratulations...new posts...good luck...well wishes...

- **Dr. Flavio Corsin** – as Aquatic Animal Health Specialist of SUMA/NACA based in Vietnam
- **Dr. Brett Edgerton** - short term contract as Aquatic Animal Health specialist of NACA
- **Dan Fegan** – President-elect of WAS and Regional Manager of Alltech
- **Dr. Gilda Lio-Po** – new Chief of Fish Health Section, SEAFDEC-AQD and President of Visayas Chapter of the Philippine Society for Microbiology
- **Dr. Sharon E. McGladdery** - Aquatic Animal Health Science Advisor, DFO-Canada and President – Aquaculture Association of Canada
- **Dr. Ana Roque** is now in Spain at the Aquaculture Centre of the Research Institute of Food and Agriculture (IRTA); website: www.irta.es
- **Dr. Peter Walker** – for wearing two hats now, in charge of two Aquatic Animal Health Laboratories (Brisbane and Geelong)
- **Dr. A. Rukyani** - we hope for your speedy recovery.

Upcoming Events (with relevant sessions on aquatic animal health)

May 2004

35th Annual Conference and Workshop of the International Association of Aquatic Animal Medicine (IAAAM), Galveston, Texas. Information at www.iaaam.org.

NEW 4th World Fisheries Congress, May 2-6, 2004. Congress Theme "Reconciling Fisheries with Conservation: The Challenge". Details: www.worldfisheries2004.org

June 2004

Diseases of Warmwater Fish, June 7-18, 2004, Ruskin and St. Augustine, Florida

Diseases of Warmwater Fish offered by the University of Florida, College of Veterinary Medicine and Institute of Food and Agricultural Sciences (IFAS), Department of Fisheries and Aquatic Sciences will be held in Ruskin and St. Augustine, Florida. It is an intensive two-week class designed to provide instruction in the methodology of diagnosis and treatment of parasitic, bacterial, viral, nutritional and environmental diseases of warmwater food fish and aquarium species. The course is open to students, veterinarians, fisheries biologists, aquaculturists and professional aquarists. Enrollment is limited and registration will be accepted on a first-come, first-served basis. For more information visit the course website or contact Dr. Ruth Francis-Floyd by phone: 352-392-9617 ext. 229, Fax: 352-392-3672.

NEW Current Status of Transboundary Fish Diseases in Southeast Asia: Occurrence, Surveillance, Research and Training, Manila, Philippines, June 2004. Organized by the SEAFDEC AQD through the GOJ Trust Fund. More information from: Dr. K Nagasawa, e-mail: nagasawa@aqd.seafdec.org.ph

GISVET 2004, 21-25 June 2004, Ontario Veterinary College, University of Guelph, Guelph, Ontario, Canada. The GISVET conferences are becoming the main forum for the presentation of research into the spatial epidemiology of diseases of animals, including livestock and wildlife, and zoonotic diseases of concern to public health. The objective of GISVET 2004 is to provide an international forum for academic and governmental researchers and officials interested in advancing applications of Geographic Information Systems (GIS) and spatial analyses, statistical techniques and modeling, to challenges in animal health and zoonotics. This conference will provide a rich environment for sharing information and ideas to advance scientific knowledge and collaborations in support of GIS activities involving livestock, wildlife and public health. The GISVET 2004 e-mail address is: gisvet04@uoguelph.ca; Web URL is www.gisvet.org

International Marine Aquarium Conference, Chicago, IL, 25-27 June 2004. Information at <http://www.theimac.org>; or Dennis Gallagher, e-mail: dennis2103@comcast.net.

July 2004

Annual Meeting of the FHS/American Fisheries Society One day continuing education workshop on current topics in fish parasitology being planned in conjunction with the annual meeting. July 2004, Shepherdson, West Virginia. Further information at: <http://training.fws.gov/>; [vicki blazer@usgs.gov](mailto:vicki_blazer@usgs.gov)

NEW Building capacity to combat impacts of invasive alien species and associated trans-boundary pathogens, 12-16 July 2004, Penang, Malaysia. A regional workshop jointly organized by NACA, FAO, ASEAN supported by US Department of State. This workshop responds to the recommendations of the US-sponsored 2002 workshop held in Bangkok “*Prevention and Management of Invasive Alien Species: Forging Cooperation throughout South and Southeast Asia*” and supports the ASEAN Cooperation Plan goal of assisting ASEAN in addressing transnational issues, as well as the ASEAN 2020 Vision of enhancing “food security and international competitiveness of food, agricultural and forest products [and] to make ASEAN a leading producer of these products...”. It further builds on experiences from the workshop on *International Mechanisms for the Control and Responsible Use of Alien Species in Aquatic Ecosystems*, jointly organized by FAO, NACA, IUCN (International Union for the Conservation of Nature), MRC (Mekong River Commission), held 27-30 August 2003, in Xishuangbanna, People’s Republic of China. The workshop will focus on aquatic invasive animal species and aquatic animal pathogens. Contact: Michael.Phillips@enaca.org

September 2004

6th International Symposium for Viruses of Lower Vertebrates (The 6th ISVLV). This is the 6th scientific gathering of ISVLV. Previous meetings were held in Seattle, USA (2002), Weymouth, England (1998), Jouy-en-Josas, France (1995), Corvallis, USA (1991) and Munich, Germany (1988). The main theme of 6th ISVLV is to bridge accumulating insights on molecular virology into applied and environmental virology of lower vertebrates. Scientists interested in viruses of amphibians, reptiles and fish are cordially invited. The 2-3 day scientific program will include sessions on pathogenesis, immunity, structural biology, molecular biology, virus evolution and emerging viruses of lower vertebrates. 20-22 September 2004 Hakodate Kokusai Hotel in Hakodate, Hokkaido, Japan Contact Site: Co-organizer Assoc. Prof. Nishizawa, T. Graduate School of Fisheries Sciences, Hokkaido University, Hakodate, 041-8611, Japan; E-mail: jinishi@fish.hokudai.ac.jp

13th International Conference on Aquatic Invasive Species, September 19-23, 2004, Lynch West County Hotel, Ennis, County Clare, Ireland. Hosted by the Institute of Technology, Sligo, this annual four-day conference is widely considered the most comprehensive international forum for the review of accumulated scientific knowledge on the impacts of aquatic invasive species, presentation of the latest field research and data, new technologies or advancements in control and mitigation, discussion of policy and approaches to effective public education and outreach initiatives to prevent new introductions. Suggested topic areas include: (a) Policy, legislation and monitoring; (b) Ecological and ecosystem impacts; (c) Socio-economic impacts; (d) information exchange; (e) education and outreach initiatives; (f) vectors of introduction; (g) control technologies for industrial and non-industrial settings. Abstract deadline: before 31 December 2003 Early Registration deadline: 31 May 2004. Information Contact: Elizabeth Muckle-Jeffs Conference Administrator 1027 Pembroke Street, East Suite 200 Pembroke ON K8A 3M4 Canada North America: 1-800-868-8776 International: 613-732-3386 Fax: 613-732-3386 E-mail: profedge@renc.igs.net Website: www.aquatic-invasive-species-conference.org

NEW Regional Workshop on Preparedness and Response to Aquatic Animal Health Emergencies, Jakarta, Indonesia, 21-23 September 2004. The Workshop will review the regional experiences in responding to disease emergencies, including the work accomplished through an FAO Technical Cooperation Programme project in Indonesia aimed at providing technical assistance to improve national capacity to respond to the ongoing carp disease epizootic. The Workshop is intended to assist Indonesia and countries of the Asian region in: (i) identifying actions to reduce the

impacts of KHV on aquaculture and small-scale fisheries; and (ii) strengthening preparedness and response to serious aquatic animal disease emergencies. Secretariat: Rohana Subasinghe (FAO), Akhmed Rukyani (DOF/Indonesia), Michael Phillips (NACA), A. G. Ponniah (WorldFish Centre - WFC). Detailed information at www.aapqis.org

Australasian Aquaculture 2004: Profiting from Sustainability, September 26-29, 2004, Sydney Convention Centre – Sydney, Australia

This is first of a series of national aquaculture conferences to be held biennially near the major aquaculture producing areas of Australia by Asian-Pacific Chapter of WAS, National Aquaculture Council of Australia and Tasmania Aquaculture Council. The event is sponsored by Australia's Fisheries Research and Development Corporation, Department of Agriculture, Fisheries and Forestry and hosted by NSW Fisheries. Meeting Website: www.australian-aquacultureportal.com; www.was.org; www.fisheries.nsw.gov.au

October 2004

Aquaculture Europe '04. Organised by the European Aquaculture Society (EAS) in cooperation with the European Society of Marine Biotechnology (ESMB) and the European Association of Fish Pathologists (EAFP). Will discuss policy issues, genetics and reproduction, larvae and juveniles, on-growing, rapid detection methods, vaccines, 'bio' health management, consumer satisfaction and health, safety and traceability, bioactive products through aquaculture. 20-23 October 2004, Barcelona, Spain Conference Website: www.easonline.org; <http://www.easonline.org/agenda/en/AquaEuro2004/default.asp>

NEW ASEM-EU Research Dialogue: Action Plan for Aquaculture Animal Health Improvement, October 18-20, 2004, back to back with European Aquaculture Society Meeting, Barcelona, Spain. The purpose of the workshop is to bring together experts from the different stakeholder groups (academics, industry, policy) to formulate common strategies around selected topics (e.g. diagnostics, intercalibration and certification, epidemiology, health management, vaccine development, etc.). The workshop proceedings will guide EU priorities for research funding (source: V. Alday)

November 2004

NEW 7th Asian Fisheries Forum set for Penang, Malaysia. With the theme "New Dimensions and Challenges in Asian Fisheries in the 21st Century", the 7th Asian Fisheries Forum will be held at the Hotel Equatorial in Penang, Malaysia from 30 November to 4 December 2004. Special symposia on "Advances in Shrimp

Biotechnology", Technology Needs and Prospects for Asian Aquaculture: Participation of the Poor" and "Biotechnology for Growth and reproduction in Fish" are included. For more details, contact the 7th AFF Secretariat at 7aff2004@usm.my

NEW Advances in Shrimp Biotechnology, in conjunction with the upcoming 7th Asian Fisheries Forum, Asian Fisheries Society, Penang, Malaysia, 30 November to 4 December 2004. This is a follow-up workshop to the one held at the 5th Asian Fisheries Forum that was held in Chiangmai, Thailand in 1998. In the intervening 6 years since the 5th Forum, much has happened in this field and 2004 will be an excellent occasion for another review. Details can be obtained from Prof. Tim Flegel at e-mail: sctwf@mahidol.ac.th. (Source: V Alday)

August 2005

Fifth International Symposium on Monogeneans, 8-12 August 2005, Zhongshan University, Guangzhou China. First circular announcement at http://www.diplectanum.dsl.pipex.com/ism5/ism5_first_circular.pdf; E-mail: china.ism5@zsu.edu.cn; ism5_china@yahoo.com.cn

October 2005

NEW 20th meeting of the World Association for the Advancement of Veterinary Parasitology (WAAVP), Christchurch, New Zealand, October 16th to 20th 2005. The program includes 7 to 9 plenary papers as well as a large number of contributed papers in up to 5 concurrent sessions. Many of these will be organised into workshops and symposia. Where possible, plenary talks will be followed by symposia on relevant topics. A Plenary talk on the topic of 'Management of Parasitic Diseases in Aquaculture' will be delivered by MB Reantaso, review paper co-authored with JR Arthur, K Ogawa, R Adlard and RP Subasinghe. First announcement details can be found at: <http://www.waavp2005.org.nz/WAAVP%20first%20announcement1.pdf>

August 2006

ISVEE 11, Cairns, Australia. 11th Triennial Meeting of the International Society for Veterinary Epidemiology and Economics. Details not yet available.

XXXVIIth Annual Meeting of the Society for Invertebrate Pathology; International Conference on *Bacillus thuringiensis*. August 1-6, 2006 Helsinki, Finland Contact: h.hokkanen@kolumbus.fi

11th International Congress of Parasitology (ICOPA XI). 6-11 August 2006 Scotland, UK. Website: <http://www.icopa-xi.org/>

Publications

Diseases in Asian Aquaculture IV. 2002. FHS/AFS. C.R. Lavilla-Torres and E. Lacierda-Cruz (eds). Contains 43 peer-reviewed original research and review papers, dealing with the diseases and health management of aquatic animals, with emphasis on the Asia-Pacific Region, presented during the Fourth Symposium on Diseases in Asian Aquaculture (DAA IV), Cebu,, Philippines, November 1999. Details at <http://afs-fhs.seafdec.org.ph>. *Please support our Society by purchasing the above publication.*

NEW Surveillance and Zoning for Aquatic Animal Diseases. Subasinghe, R.P.; McGladdery, S.E.; Hill, B.J. (eds.). FAO Fisheries Technical Paper. No. 451. Rome, FAO. 2004. 73p. This document contains the recommendations and conclusions of an **Expert Consultation on 'Surveillance and Zoning for Aquatic Animal Diseases'** jointly organized by FAO, the Federal Department of Fisheries and Oceans Canada (DFO-Canada) and OIE held in October 2002 at the FAO Headquarters in Rome, Italy. The objective of the consultation was to determine what surveillance options can best support scientifically valid zonation frameworks. Contact: Rohana.Subasinghe@fao.org

NEW Capacity and Awareness Building on Import Risk Analysis (IRA) for Aquatic Animals (In press, available in June 2004). J.R. Arthur and M.G. Bondad-Reantaso. (eds.). Proceedings of the Workshops held 1-6 April 2002 in Bangkok, Thailand and 12-17 August 2002 in Mazatlan, Mexico, 192 pp. APEC FWG 01/2002, NACA, Bangkok. Contains 25 papers divided into 5 sections: (a) Background for Risk Analysis; (b) Risk Analysis Process; (c) Risk Analysis and the World Trade Organization; (d) Country Experiences; and (e) National Strategies for Aquatic Animal Health

NEW FAO. Health management and biosecurity maintenance in white shrimp (*Penaeus vannamei*) hatcheries in Latin America. FAO Fisheries Technical Paper. No. 450. Rome, FAO. 2003. 58p. This document provides technical guidance on how to improve the health and quality of postlarvae produced in hatcheries through improved facility maintenance and husbandry, broodstock maturation, larval rearing, feeding, water quality management, biosecurity and health management, using interventions at different points of the

hatchery production process. The document also provides valuable information on how Standardised Operating Procedures (SOPs) and Hazard Analysis Critical Control Point (HACCP) type interventions can be applied during hatchery production of *P. vannamei* postlarvae. This document is expected to facilitate the efforts of hatchery operators and managers to produce quality, disease free, healthy *P. vannamei* postlarvae, thus improving overall production and the sustainability of white shrimp aquaculture. Also available in Spanish version. Contact: Rohana.Subasinghe@fao.org

NEW Manual on Risk Analysis for the Safe Movement of Aquatic Animals (APEC FWG 01/2002) (In press, available in June 2004). 2004. J.R. Arthur, M.G. Bondad-Reantaso, F.C. Baldock, C.J. Rodgers and B.F. Edgerton. APEC/DoF/NACA/FAO. This Manual was prepared as an output of the Asia-Pacific Economic Cooperation (APEC) Fisheries Working Group (FWG) project APEC FWG 01/2002 "Capacity and Awareness Building on Import Risk Analysis (IRA) for Aquatic Animals. This manual provides a simplified overview of the risk analysis process to assist responsible individuals to formulate national policies and develop approaches to conducting risk analyses. The initial sections of the manual provide information and guidance on how risk analysis facilitates trade while protecting national biological, social and economic resources; a brief review of pertinent international agreements and responsibilities; and a discussion of the issues surrounding the development of national policy and legislation. Following sections then provide a general overview of the process and the mechanisms needed (expertise, procedures, scoping an analysis, etc.) to begin a risk analysis. The individual components are then discussed in detail. These include risk communication, hazard identification, risk assessment and risk management. The remaining sections address some other important considerations, such as the use of "in-house" vs more extensive risk analysis, the importance of good scientific review, qualitative and quantitative approaches to risk analysis, the precautionary approach, developing countries and risk analysis, and the role of politics and science in the risk analysis process. A list of the Literature Cited is given, and finally, two annexes provide a list of Internet resources related to risk analysis for aquatic animals (Annex I) and a list of national agencies responsible for implementing risk analysis and other related aquatic animal health activities within participating Asia-Pacific Economic Cooperation (APEC) Economies and Network of Aquaculture Centres in Asia-Pacific (NACA) Member Countries (Annex II). Hypothetical examples of various risk analysis scenarios are presented, with the primary goal of encouraging readers to consider how these scenarios might apply to their particular country situations.

Aquatic Animal Health Opportunities

Manager, Aquatic Animal Health

Berrimah Veterinary Laboratories, Darwin, Australia
Description: Provide advice to Government and clients on all aquatic animal health issues relating to fisheries and aquaculture within the Northern Territory and provide a diagnostic service for aquatic animal diseases for the Department and its clients. Contribute to research and development activities in the area of aquatic animal health. Qualifications: A degree in veterinary science that covers the areas of microbiology, virology, and pathology. Extensive knowledge in comparative veterinary pathology and histopathology, in veterinary microbiology and in the diagnosis and management of fish diseases. Demonstrable abilities in diagnostic histopathology of fish, crustaceans and molluscs. Report writing skills with experience in translating research results to end-users by extension and publication. Salary: \$54,700 to \$63,000 per year. Deadline: 6 July 2004. Contact: Jerome Bosmans, Department of Business, Industry and Resource Development, Darwin Aquaculture Centre GPO Box 3000, Darwin NT 0801, Australia
Phone: 61-8-89244266
Fax: 61-8-89244277
Email: jerome.bosmans@nt.gov.au
Website: http://www.nt.gov.au/dbird/dpif/animals/vet_labs.shtml
(Source: EdOp Net electronic mail)

Post-Doctoral Investigator

Harbor Branch Oceanographic Institution
Ft. Pierce, Florida
Description: Performs research as a fish health specialist on the goals related to the Harbor Branch Oceanographic Institution and USDA-Agricultural Research Service Sustainable Marine Aquaculture Systems program. Research will focus on marine fish grown in low-salinity environments, specifically Florida pompano and black sea bass. Qualifications: PhD in Fish Pathology or closely related discipline; diagnostic and research experience with warm water, marine fish diseases; knowledge of microbiology (virology, bacteriology, parasitology) and fish husbandry skills. Deadline: 20 July 2004. Contact: Megan Davis
Email: mdavis@hboi.edu
Website: http://www.hboi.edu/index_04.html
(Source: EdOp Net electronic mail)

Graduate Research Assistantship, MS or PhD,

College of Veterinary Medicine, Mississippi State University, Starkville, Mississippi. (Bacterial diseases of fish/aquatic medicine at the MS or PhD level. The project will investigate the pathogenesis of enteric septicemia of catfish or columnaris disease in channel catfish utilizing

reporter gene systems and imaging technology.) Deadline: 1 June 2004. Refer to EdOp Net, April 2004. (Source: EdOp Net electronic mail)

Principles of Health Management in Aquaculture (online course).

An on-line course, offered by SEAFDEC-AQD, intended for fishfarmers, farm workers and technicians farm managers, policy planners, development workers and college students. 12 module includes impact of disease development in aquaculture, infectious diseases, nutritional diseases, environmental and other non-infectious diseases, harmful and toxic algae; diagnostics; prevention and control. Training fee (US\$ 250). June to September 2004, For more information visit <http://ivle.upou.org/> or contact Celia R. Lavilla-Torres celiap@aqd.seafdec.org.ph. Source (<http://www.enaca.org>)

Shrimp Pathology Short Course, USA, June 7-18, 2004.

The University of Arizona will hold a training course on disease diagnosis and control in marine shrimp culture. The course will consist of lectures and practical laboratory training on the current methods used to diagnose, prevent and treat the principal diseases of penaeid shrimp. Applicants should have a minimum of a Bachelor of Science degree in fisheries biology, microbiology or related fields, proficiency in English. Preference will be given to those currently working in shrimp disease diagnostic labs or in shrimp culture research programs. Course cost is US\$ 1,200. Application deadline is 14 May 2004. For more information contact: Wanda McCormack or Donald Lightner The University of Arizona Department of Veterinary Science & Microbiology Veterinary Science / Microbiology Building Room 202, Tucson, Arizona 85721 USA. Email wcm@u.arizona.edu Source (<http://www.enaca.org>)

Shrimp Health Management Training, 21-26 June 2004.

The NACA Secretariat will organize a "Shrimp Health Management Training Workshop" to be held in Thailand during 21 – 26 June 2004. The course will include lectures, practical, case studies, visits to farms and adequate time for discussion. The lectures are based on the information contained in the publication "Health Management in Shrimp Ponds" and are illustrated with an extensive range of photographic slides. The course will emphasize the benefits of maintaining healthy stock and preventing disease through management of the pond. It is a fee-paying course offered annually. The registration fee is USD750. The organizer does not offer scholarship. For registration or inquiry, please contact training@enaca.org. Source (<http://www.enaca.org>)

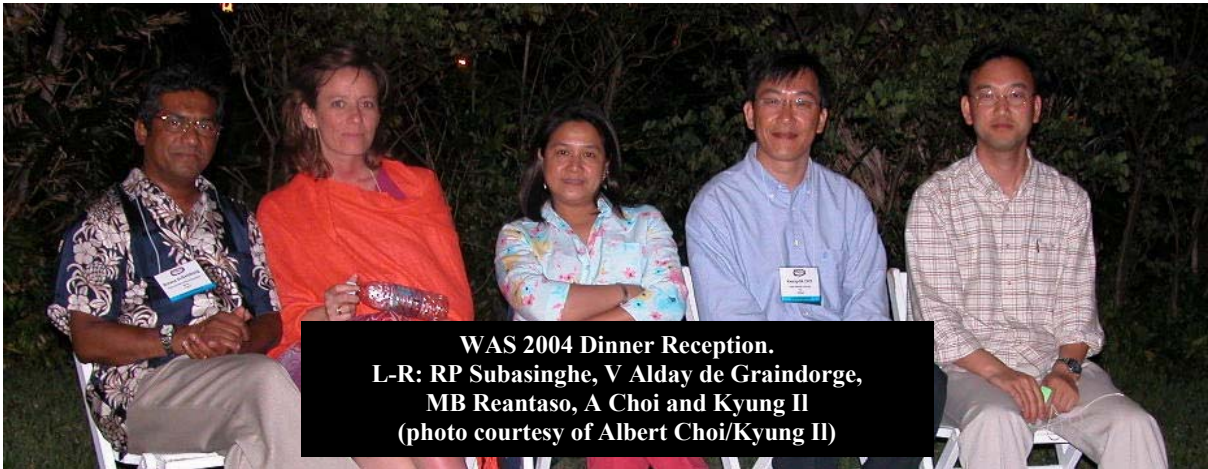
2-year Graduate Program in Shellfish Health Management.

The Department of Health Management, Atlantic Veterinary College (AVC), University of Prince Edward Island, is offering a 2-year graduate program in shellfish health management related to physiologic fitness in mollusks exposed to noxious substances. The program will consist of training and completion of a thesis-based Master of Science degree. The research subject will be 'Effect of Treatment on the Physiological Fitness of the Mussel Population'. Applicants must possess a BSc or an equivalent qualification. In accordance with Canadian immigration regulations, this notice is directed first to Canadian citizens and permanent residents. Applications will be accepted until May 21 2004. Concurrent application for admission to the AVC graduate program is suggested, as successful admission is required for appointment. To apply, please send a letter of intent, a copy of transcripts, curriculum vitae, and contact information of two references to Dr. Jeff Davidson, Department of Health Management, Atlantic Veterinary College, University of Prince Edward Island, 550 University Avenue, Charlottetown, PEI. C1A 4P3. Telephone: 902-566-0666, Fax: 902-566-0823, Email: davidson@upei.ca. For further information on applying for AVC graduate programs, visit: <http://www.upei.ca/~avc/graduate.htm>
Source (<http://www.enaca.org>)

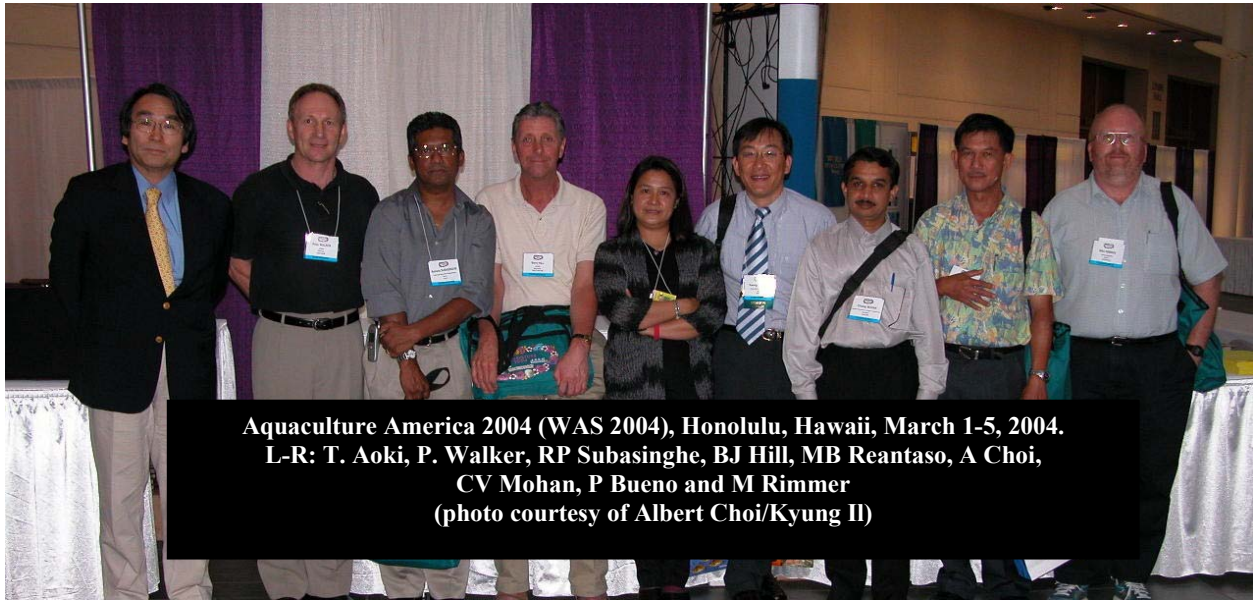
An urgent call to members: Please update your membership payment and we kindly request your cooperation to submit contributions for the FHS Newsletter.



**Biosecurity Workshop, WAS 2004, Honolulu, Hawaii
L-R: D Scarfe (AVMA), RP Subasinghe (FAO),
T Hastein (Norway), BJ Hill (CEFAS, UK),
and E-M Bernoth (OIE)
(photo courtesy of Steven Shih)**



**WAS 2004 Dinner Reception.
L-R: RP Subasinghe, V Alday de Graindorge,
MB Reantaso, A Choi and Kyung Il
(photo courtesy of Albert Choi/Kyung Il)**



Aquaculture America 2004 (WAS 2004), Honolulu, Hawaii, March 1-5, 2004.
L-R: T. Aoki, P. Walker, RP Subasinghe, BJ Hill, MB Reantaso, A Choi,
CV Mohan, P Bueno and M Rimmer
(photo courtesy of Albert Choi/Kyung Il)



Experts Meeting on Implementation of a
Global Invasive Species Information Network (GISIN),
6-8 April 2004, Inner Harbor Area, Baltimore, Maryland, USA
(photo courtesy of Christine Casal)

**Thanks to Victoria Alday, Rohana Subasinghe,
Mike Phillips, Albert Choi, Steven Shih, K
Nagasawa and Christine Casal for contributions.**

This Electronic Newsletter, intended for FHS/AFS members and other subscribers, contains information on member news/updates, regional/global project news/updates, important events, useful publications and other aquatic animal health resources to and from the Asia-Pacific region. Regular issues will come out on a monthly, bimonthly or quarterly basis depending on available information; newsletter archive can be accessed at <http://afs-fhs.seafdec.org.ph>. For contributions, subscription/unsubscription, please send e-mail to melba@gocaston.net.