

agricultural fields. It has only quite recently been established with limited funding. In light of the requirements from the Central Extension Authority, there should be available with service structure, staff teams, training facilities and the pilot test farms. However, the insufficient supply of the staffing and facilities will certainly handicap technical progress. In the early 1980s, the contribution from technical progress

in the aquaculture sector accounted for 16% of the increase in production. However, the contribution to the improvement reached 48% in the 1990s. Undoubtedly, the research output is a powerful source in enhancing and developing fisheries, but the extension services are equally important.

The development of the aquaculture needs technical progress while the extension services demand good

systems. Effective extension is always welcome by the farmers. The extension services should develop themselves by carrying out business, trading and consultations for the farmers. The extension services in the years to come will play an increasingly more important role in developing the aquaculture sector and enhancing the technical contribution to the aquaculture production.

Aquaculture calendar

Regional Workshop on Sustainable Marine Finfish Aquaculture for the Asia-Pacific, 30 September-4 October, Halong City, Vietnam

A Regional Workshop on Sustainable Marine Finfish Aquaculture for the Asia-Pacific is to be held in Halong City, Vietnam, from 30 September to 4 October 2002. The workshop is one in a series undertaken by the Asia-Pacific Marine Finfish Aquaculture Network. This workshop will concentrate on recent improvements in production technology for marine finfish aquaculture, and will incorporate the end-of-project workshop for ACIAR project Improved hatchery and grow-out technology for grouper aquaculture in the Asia-Pacific region. For further information please contact mike.rimmer@dpi.qld.gov.au.

Aquaculture Europe 2002, Trieste, Italy 16-19 October 2002

The theme is Seafarming – Today and Tomorrow. Three workshops will be held in conjunction to encourage interactive discussion on future perspectives with industry. The workshops will address 1) applied solutions to health management in Mediterranean aquaculture; 2) new technologies for Mediterranean aquaculture; and 3) certification in aquaculture – HACCP, ISO Standards, Eco-labeling and organic. *More detailed information is available from the European Aquaculture Society website www.easonline.org or Email ae2002@aquaculture.cc*

Workshop on Health Management, 16 October, Trieste, Italy

Organized in cooperation with the European Fish Pathologists (EAFP). *Contact: EAS, Slijkensesteenweg 4, B-8400 Oostende, Belgium, Tel: +32- 59-32-38-59, Fax: +32- 59-32-10-05, E-mail: ae2002@aquaculture.cc*

Workshop on Certification in European Aquaculture, 16 October, Trieste, Italy

*Contact EAS, Slijkensesteenweg 4, B-8400 Oostende, Belgium
Tel: +32- 59-32-38-59, Fax: +32- 59-32-10-05, E-mail:
ae2002@aquaculture.cc*

Offshore Mariculture, October 29-31 2002, Bali, Indonesia

Contact: Jean Pritchard, Society for Underwater Technology Innovation Centre, Offshore Technology Park, Bridge of Don Aberdeen AB23 8GX, Scotland, Tel: +44.0.1224.823637, Email: jeansut@sstg.demon.co.uk or visit <http://www.sut.org.uk/pdf/maricultureflyer.pdf> for more information.

ExpoPesca and Acuicultura 2002, 20-23 November 2002, Santiago, Chile

Email Sue Hill for more information on sue.hill@informa.com

Mega Aquarium Shanghai 2002, 21-24 November 2002, China

Contact National Development Ltd. Room 3, 4th Floor, Albion Plaza 206 Granville Road, Tsimshatsui, Kowloon, Hong Kong. Tel +852 2369 1766, fax +852-2369 1799 or email info@megaaquarium.com.

5th Symposium on Diseases in Asian Aquaculture, 25-28 November 2002, Gold Coast, Australia

The Fish Health Section of the Asian Fisheries Society will host the 5th Triennial Symposium on Diseases in Asian Aquaculture (DAA5) from 25 – 28 November 2002 at the Gold Coast International Hotel, Australia. Two satellite workshops will follow the Symposium: Epidemiology and Risk Assessment 29-30 November 2002, and the Asia-Pacific Regional Molluscan Health Management Training Program Phase II 2-6 December 2002. For more information about the symposium contact OzAccom Conference Services, ph +61 7 3854 1611, or you can inquire at email daa5@ozaccom.com.au. *For more information about the workshops, contact Dr Chris Baldock - ph +61 7 3255 1712 (Epidemiology and Risk Assessment), email chris@ausvet.com.au and Dr Rob Allard - ph +61 7 3840 7723 (Molluscan Health).*

Second International Tropical Marine Ecosystems Management Symposium, 25-28 November 2002, Manila, Philippines

Tropical marine ecosystems are under increasing pressure from many sources, including coastal land use and development, pollution, unsustainable fishing and tourism and the impacts of global climate change.

The 2nd International Tropical Marine Ecosystems Management Symposium (2nd ITMEMS) will provide an opportunity for managers to engage in multidisciplinary discussions and sharing of experiences and lessons learned to identify gaps and priorities for future management action. The output and recommendations from the symposium will be disseminated through the partners of ICRI (including member countries, the International Coral Reef Action Network, IUCN, UNEP, WWF, the World Bank, donor agencies) and considered in the implementation of management programs for tropical ecosystems at local, national, regional and global levels.

The 2nd ITMEMS will be conducted through a number of concurrent workshops that address the topics listed below. Each workshop will start with presentations of exemplary case studies that illustrate relevant experiences and lessons learned either by their successes or, equally important, their inadequacies. These will form as bases for subsequent facilitated discussions that aim to achieve clear recommendations and priorities for the management of tropical ecosystems in the future. The results of each workshop will then be reported to all participants and discussed in plenary sessions. The number of participants in each workshop group will be limited to approximately 20. Preliminary topics for workshop sessions include co-management and social impacts of marine and coastal management; economic benefits of conservation and sustainable use; the role of the private sector in protection and management; the role of protected areas and management; monitoring to facilitate successful management; management to mitigate the effects of climate change; dissemination of information for coastal and marine management; targeted

research for management support; securing sustainable funding for management; restoration and rehabilitation of damaged ecosystems; and achieving sustainable fisheries.

Contact the ICRI Secretariat: +63 2 928 1225 / +63 2 926 2693 or e-mail to: secretariat@icriforum.org or olof.linden@cordio.org. Organized by the International Coral Reef Initiative (ICRI), Joint Philippine-Sweden Secretariat, 2nd/F FASPO Bldg., Department of Environment and Natural Resources (DENR), Visayas Ave., Diliman, Quezon City, 1101, Philippines.

International Symposium on the Management of Large Rivers for Fisheries: Sustaining Livelihoods and Biodiversity in the New Millennium, 11-14 February 2003, Phnom Penh, Cambodia

The symposium will review and synthesize the current status, management and development of large rivers systems including their ecology, fisheries, environmental impact assessments, multiple uses of resources and associated socio-economic considerations. The symposium will also raise the political, public and scientific awareness of the importance of river systems, the living aquatic resources they support and the people that depend upon them and contribute to better management, conservation and restoration of the living aquatic resources of large rivers. It is organized by the Mekong River Commission, the Cambodian Department of Fisheries and the FAO. Visit <http://www.lars2.org> for more information.

Accessing and Meeting Requirements of Markets for Aquaculture Products, Regional Seminar 11-14 February 2003, Manila, Philippines

We invite you to a seminar of fish farmers, fishery product traders, entrepreneurs, prospective investors, suppliers, technical service support providers, industry analysts, experts, advisers, technologists, researchers and government policy makers from more than 25 countries from Asia- Pacific, Europe and North America.

Interact with co- participants and with resource persons from various UN

specialized agencies and other international organizations including ADB, ESCAP, ICLARM, INFOFISH, FAO, IBRD, ITC, OIE, UNCTAD, WHO, WTO and others. The topics: various issues and policy approaches relating to access and competitiveness in markets for aquaculture products and impacts of certain trade issues on poverty and environment.

Work Boat World Asia, 18-20 February 2003

Contact Baird Publications, 135 Sturt St, Southbank, Melbourne 3006, Australia, Tel +61 (3) 964 50475, fax +61 (3) 9645 0475, or email marinfo@baird.com.au.

Advanced Fish Medicine course, Florida USA, 25-28 March 2003

Advanced Fish Medicine is an intensive six-day course that will provide instruction in the most recent and advanced procedures associated with clinical fish health management. The course will emphasize a "hands-on" approach to many of the latest techniques including anesthesia, hematology, nutritional therapy, imaging, histopathology and surgery. The primary goal is to encourage practitioners to increase their expertise in clinical fish medicine. The course is intended for the advanced student who has prior education in fish diagnostics and health management. Acceptance into this course is by permission of the faculty. The course will start and end in Orlando, Florida with behind-the-scenes workshops at Walt Disney World and Sea World Orlando, respectively. Lectures and laboratory exercises will be conducted at the University of Florida College of Veterinary Medicine in Gainesville, Florida. Visit <http://conference.ifas.ufl.edu/fishmed/> for more information or contact Dr. Ruth Francis-Floyd, Department of Fisheries and Aquatic Sciences, University of Florida/IFAS, PO Box 110600, 7922 NW 71st St., Gainesville, FL 32653 - 3071, USA, tel: +1-352-392-9617 ext. 229, fax: +1-352-392-3672 or email: rff@mail.ifas.ufl.edu