



SEAFDEC NEWSLETTER

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Second Press Conference for “Fish for the People 2020”

On 16 August 2010, the ASEAN, SEAFDEC and the Department of Fisheries of Thailand jointly held the Second Press Conference for the ASEAN-SEAFDEC Conference on Sustainable Fisheries for Food Security Towards 2020 to be organized from 13 to 17 June 2011 at the Sofitel Centara Grand Bangkok Hotel in Thailand.

During the Second Press Conference, the representative from the ASEAN Secretariat Mr. Suriyan Vichitlekarn, the Deputy Director-General of the DOF of Thailand Dr. Nuntiya Unprasert, the Executive Director of the ASEAN Foundation, Dr. Filemon Uriarte, Jr., and the Secretary-General of SEAFDEC Dr. Chumnarn Pongsri were at hand to reveal the plans and the progress of

the preparatory works for the conduct of the ASEAN-SEAFDEC Conference.

It was in January 2010 that ASEAN, SEAFDEC and DOF of Thailand held the First Press Conference to initially announce the conduct of the ASEAN-SEAFDEC Conference. Since then, significant progress has been made in

the preparation of the Conference. These include among others, the identification of relevant topics to be discussed during the Conference, e.g. ways and means of enhancing governance in fisheries management, sustainable aquaculture development, ecosystem approach to fisheries, and post-harvest and safety of fish and fisheries products. The emerging

requirements for trade of fisheries products and climate change adaptation and mitigation would be examined for their impacts on food security. In addition, livelihood of fishing communities and prospects of employment in fisheries related activities would also be explored for their contribution towards sustaining food supply from inland fisheries.

One of the expected outputs of the ASEAN-SEAFDEC Conference would be the new

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Representatives from the ASEAN Secretariat, Department of Fisheries of Thailand, ASEAN Foundation, and the SEAFDEC Secretary-General (second from right)

Council Director for Lao PDR and current Chairperson of SEAFDEC Council visits TD

The SEAFDEC Council Director for Lao PDR and the current Chairperson of the SEAFDEC Council made an official visit to SEAFDEC Training Department.

On 28 September 2010, the Director of the Department of Livestock and Fisheries (DLF) of Lao PDR, Dr. Bounkhouang Khambounheuang who is also the SEAFDEC Council Director for Lao PDR and currently the Chairperson of the SEAFDEC Council, together with senior officials of the DLF, visited TD. The visitors were welcomed



The SEAFDEC Council Director for Lao PDR and the Chairperson of the SEAFDEC Council during his official visit to TD

by the Secretary-General of SEAFDEC and Chief of the Training Department, Dr. Chumnarn Pongsri together with

officers of SEAFDEC Secretariat and TD. During the welcome ceremony, Dr. Chumnarn delineated the role of TD on the promotion of sustainable fisheries development and the activities undertaken by the Department. Following that, Dr. Bounkhouang in his capacity as the Chairperson of the SEAFDEC Council provided directives on SEAFDEC activities and the ways forward. He then joined the officials of SEAFDEC to observe the facilities and training sessions organized at TD, as well as the activities conducted onboard the M.V. SEAFDEC during a short cruise. ☒

EDITORIAL

During this quarter, SEAFDEC conducted the Second Press Conference for the ASEAN-SEAFDEC Conference “Fish for the People 2020: Adaptation to a Changing Environment” of which the updated programs/themes, as well as the progress of the preparatory works for the Conference were relayed to the public. In addition, during the Second Press Conference, the signing of the agreement between the ASEAN Foundation and SEAFDEC was also arranged to ascertain the commitment and financial support from the ASEAN Foundation to the Conference.

SEAFDEC during the quarter also organized the Expert Consultation on Managing Fishing Capacity to Combat IUU Fishing in Southeast Asia, where discussions were made on definitions, terminologies and classifications of fisheries; harmonization of mechanisms of catch documentations and Port State Measures among the countries in the region; as well as enhancing cooperation among countries on IUU fishing countermeasures. In particular, Vessel Monitoring System and Community-based Monitoring Control and Surveillance were identified as essential tools in enhancing effective fisheries management and combating IUU fishing.

In addition to the existing activities in combating IUU fishing, SEAFDEC also formulated a new project proposal for financial support from the Japanese Trust Fund. This new project is envisaged to commence in 2011 and would be implemented (until 2015) in coordination with other existing activities and initiatives of the region to enhance the means of combatting IUU fishing in the region. ❖

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Second Press Conference for “Fish for the People 2020”

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“Decade Resolution and Plan of Action on Sustainable Fisheries for Food Security in the ASEAN Region (Towards 2020)”, which would be developed and adopted by the Ministers responsible for Fisheries of the ASEAN-SEAFDEC Member Countries, as the regional policy framework and priority actions for fisheries development in the Southeast Asian region. The “ASEAN-SEAFDEC Conference “Fish for the People 2020” is therefore considered one of the significant milestones for the collective efforts of the ASEAN, SEAFDEC, and the ASEAN Member Countries and Japan, in paving the way for ensuring sustainable fisheries development and enhancing the contribution of fisheries to food security of the ASEAN community in the coming decade.

The ASEAN-SEAFDEC Conference would be financially supported by the Member Countries and collaborating

partners, especially the Government of Japan through SEAFDEC, the ASEAN Foundation through the Japan-ASEAN Solidarity Fund, and the United States Agency for International Development (USAID). As witnessed during the Second Press Conference, the signing of the agreement between the Executive Director of the ASEAN Foundation Dr. Filemon Uriarte, Jr. and the SEAFDEC Secretary-General Dr. Chumnarn Pongsri was held to formalize the financial support of the ASEAN Foundation for the ASEAN-SEAFDEC Conference particularly for the participation of representatives from the ASEAN Member States to the Conference. Furthermore, the ASEAN-SEAFDEC Conference would also be supported by other regional/international organizations as well as academic institutions in the ASEAN-SEAFDEC Member Countries. ❖

Regional training course on co-management

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Therefore, the nine-day regional training course on co-management using group user rights for enhancing small-scale fisheries development and management was organized to promote and strengthen the capability of participants to comprehend the concept and regional guidelines for co-management using Group’s User Rights for small-scale fisheries in Southeast Asia, and apply the concept and guidelines in practicing coastal fisheries management through sharing and exchanging of their experiences and views on small-scale fisheries especially in improving coastal fisheries management.

Fourteen fisheries officers from SEAFDEC member countries responsible for small-scale fisheries development and/or coastal fisheries management participated in this course. The course

content consists of introduction and background of co-management for small-scale fisheries management, lessons learned and experiences on co-management from Japan and member countries, scope and characteristics of co-management & roles and functions of parties concerned in co-management, fisheries co-management mechanism and implementation of co-management, participatory method of co-management for small-scale fisheries, introduction of rights-based fisheries towards fishing rights and designated area practices, institution building of the community fisheries, SEAFDEC collaborative projects related to coastal fisheries and co-management and research proposal design. Furthermore, field trip and study at the site related to co-management, small-scale fisheries or community fisheries institution were also included in this training course. ❖

SEAFDEC Secretary-General in Japan

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Furthermore, during the courtesy call to Dr. Matsusato and Dr. Matsuyama, Dr. Chumnarn also emphasized the need to conduct for HRD activities for the young staff of SEAFDEC so as to coordinate policy making based on their technical background. He expressed the requirement of SEAFDEC to establish cooperation particularly on HRD activities with relevant Japanese institutions and universities.

As part of his mission, Dr. Chumnarn also participated in the SEAFDEC Technical Support Committee held at Marino-Forum 21 on 15 July, which was attended by a number of representatives from fisheries-related universities and institutions in Japan which have been



Visit of SEAFDEC Secretary-General to Tokyo University of Marine Science and Technology

supporting the relevant activities of SEAFDEC and the Member Countries. In particular, a number of universities and institutes expressed their willingness to provide technical cooperation to the ASEAN-SEAFDEC Conference by sending representatives to participate in the technical sessions.



Signing of MOU between SEAFDEC and the University of Tokyo

Signing of MOU was also held between Dr. Chamnarn and Mr. Shin-ich Shogenji Ph.D., Dean of the Graduate School of Agricultural and Life Sciences and Faculty of Agriculture of the University of Tokyo, for the extension of the Memorandum of Understanding to promote cooperation for the achievement of their parallel objectives. ❖

AQD signs accords with WorldFish and a private entity

AQD and the Malaysian-based WorldFish Center signed a memorandum of understanding on 21 July 2010 in Penang, Malaysia for joint research & training activities, exchange of experts, and co-ownership of intellectual property of research results in the area of sustainable small-scale aquaculture development. WorldFish Director-General Dr. Stephen Hall and AQD Chief Dr. Joebert Toledo signed the MOU on behalf of their respective institutions.

AQD also has a new agreement signed 16 September 2010 with a private company, the Singapore-based GAIA

Mariculture, to provide technical assistance and extend its science based technologies on integrated multi-trophic aquaculture (IMTA) in the GAIA farm in Cebu, the Philippines. The IMTA project involves sea cucumber, pompano & seaweeds, and will also seek the collaboration of human communities in Ronda Bay area in aquatic conservation measures. ❖



Mission from the Embassy of the Republic of Indonesia visits SEAFDEC

An Indonesian mission, comprising 7 members of Indonesian Embassy's Task Force on Fishery in Bangkok led by Ms. Nana Yullana, Coordinator of the Task Force and Head of Economics Affairs visited SEAFDEC Secretariat on 14 September 2010. She



gave a brief information on the background, objectives, programs and the services of the Task Force which aimed to (i) strengthen the bilateral cooperation between Indonesia and Thailand, (ii) promote investment in fishery sector, and (iii) facilitate information for businessmen. Taking advantage of the opportunity, SEAFDEC led by its Secretary-General Dr. Chumnarn Pongsri, also introduced SEAFDEC's roles, activities and achievements in supporting the Member Countries including Indonesia towards achieving sustainable fisheries development. The Meeting also discussed and exchanged views on the important fisheries issues for future cooperation. ❖

AQD organizes and hosts FAO expert workshop

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AQD Chief Dr. Joebert Toledo, on the other hand, outlined AQD's historical work on feed development and its role in assisting private sector development through the promotion of science-based, sustainable aquaculture technologies and practices. Mr. Kazuyuki Tsurumi, the FAO representative in the Philippines, reiterated FAO's commitment to helping countries manage their fisheries and aquaculture sectors effectively.

The species covered in the workshop include Nile tilapia, Indian major carps, striped catfish, whiteleg shrimp, tiger shrimp and freshwater prawn. ❖

DEPARTMENTAL ACTIVITIES

AQD garners best research awards

AQD scientist Dr. Maria Rowena Eguia received the prestigious Dr. Elvira O. Tan Memorial Award for her paper on Genetic changes during mass selection for growth in Nile tilapia, *Oreochromis niloticus* (L), assessed by microsatellites. The paper was recognized as the Best published paper in aquaculture and inland fisheries by the Philippine Department of Science & Technology in a ceremony held 27 July at Los Baños, Laguna.

Dr. Eguia and her co-authors Dr. Minuro Ikeda, Dr. Zubaida Basiao, and Dr. Nobuhiko Taniguchi worked on the National Inland Fisheries Institute (NIFI) or Chitralada Nile tilapia strain, noting that there were changes in both the control (unselected) and selected (or improved) tilapia in terms of genetic diversity indices (alleles, heterozygosity, and inbreeding rate). They concluded

that inbreeding levels in aquatic animal stocks can be detected using genetic markers, information that would be useful in formulating effective stock management protocols to minimize stock deterioration.

Another AQD research staff, Ms. Dianne Hope Tormon, was awarded the Best scientific paper for her work on Identifying women's roles in sustainable aquaculture livelihood development: experiences from the oil spill crisis in Guimaras Strait in the Philippines during the 5th National conference of the national network on women in fisheries in the Philippines that was held 15-17 September in Cagayan de Oro City, Philippines.

Ms. Tormon co-wrote the paper with AQD's associate scientist Dr. Nerissa Salayo and socioeconomist Mr. Renato



Dr. Maria Rowena Eguia at center

Ms. Dianne Hope Tormon, best scientific paper



Agbayani, noting that the women were interested in every livelihood option and were willing to learn new skills to augment household income. Aquaculture offers opportunities for the productive use of skills of both genders but the activities are different though interrelated. ❖

SEAFDEC participates in Third Meeting of the APFIC Regional Consultative Forum Meeting

On 1-3 September 2010, the SEAFDEC Secretary-General, Dr. Chumnarn Pongsri and Program Manager, Ms. Pattaratjit Kaewnuratchadasorn joined the Third APFIC Regional Consultative Forum Meeting (RCFM)- "Balancing the needs of people and ecosystems in

fisheries and aquaculture management in the Asia Pacific" held in Jeju Island, the Republic of Korea, co-hosted by the Ministry for Food, Agriculture, Forestry and Fisheries (MIFAFF) of the Republic of Korea and the Food and Agriculture Organization of the United Nations

(FAO) and the Asia-Pacific Fishery Commission (APFIC). The objectives of the 3rd APFIC RCFM were to provide a forum for its Members and regional partners to share their policy challenges and solutions and address the main policy challenges that need to be considered in the future. The recommendations of this forum would be presented to the APFIC session. In addressing global and regional concerns, SEAFDEC presented the progress of its relevant activities, e.g. the promotion of larger conservation area (*refugia*) in the Gulf of Thailand and the Andaman Sea. In addition, SEAFDEC also reported on its activities that address the issues in response to the international agreements and measures to combat IUU fishing such as vessel registration, record and inventories port inspection in order to improve fisheries management in the region. ❖



SEAFDEC's Dr. Chumnarn Pongsri and Ms. Pattaratjit Kaewnuratchadasorn during the Third APFIC Regional Consultative Forum Meeting (RCFM)

Tailor-made training on coastal fisheries management and extension methodology

TD organized a Tailor-made Training on Coastal Fisheries Management and Extension Methodology for three participants from the Ministry of Fisheries and Marine Resources, Sierra Leone from 6 to 23 September 2010.

The Ministry of Fisheries and Marine Resources of Sierra Leone requested TD to organize the Tailor-made Training on Coastal Fisheries Management and Extension Methodology for three participants with full budgetary support from the Ministry. The course focused on the modern principles and concepts of coastal fisheries and resources management; the need for application of co-management, involving local communities and applying eco-system principles to fisheries management;



Sierra Leone participants in the tailor-made training course visited fisheries activities in Rayong Province

small-scale fishery problems and constraints; facilitation, mediation and conflict resolution skills; extension concepts, methodologies and implementation; and study/field trips to fishing villages and media centers, with practical activities on the development of extension media. ❖

AQD holds strategic planning and review meeting

Starting 2011, AQD will steer into new directions as outlined during the In-house strategic planning and review conducted September 28-30 at AQD's main station in Iloilo.

AQD Chief Dr. Joebert Toledo emphasized that AQD will shift from taking on a commodity-based approach to adopting a thematic approach, specifically, having program themes based on the Regional technical consultation on aquaculture (RTC) held in March 2010.



Discussion on strategic planning

In order to come up with a modified five-year strategic plan (2012-2015), AQD senior staff discussed in plenary and small-group workshops the harmonization of the 2009-2012 strategic plans with the five RTC themes. They also determined major gaps in current

technologies, suggested priority R & D areas (i.e., research and information-education-communication), made action plans, and identified potential collaborations.

The RTC themes are: (i) meeting social and economic challenges; (ii) supply of good quality seeds; (iii) healthy and wholesome aquaculture; (iv) maintaining environmental integrity through responsible aquaculture; (v) adapting to climate change.

The Chief noted that although there are many proposed plans of action, issues on limited financial and human resources remain. "Let us consider these constraints as a challenge. Being a dynamic institution, AQD needs to be always at the forefront of any development, which is in line with AQD's vision, and that is, to be a global leader in the generation of science-based technologies." Thanking the staff for their active participation, the Chief encouraged everyone to "move together, move forward and work together, and bring a good future for AQD." ❖

SEAFDEC at the ASEAN High Level Workshop on AFCC

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strengthen cooperation among partners, ASEAN Member States and ASEAN. The Workshop also discussed and agreed that the draft TOR/ROP for the Ad-Hoc Steering Committee on Climate Change and Food Security, TOR for AFCC Management team and Matrix of indicative activities on the implementation of AFCC will be presented at the upcoming fora of relevant bodies in the ASEAN. Following the SOM-AMAF decision, SOM-AMAF will coordinate with other related sectors in the AFCC to formalize the Ad-Hoc Steering Committee on Climate Change and Food Security. It was expected that the Ad-Hoc Steering Committee will meet for the first time by mid of next year. ❖

GOJ Trust Fund projects at AQD reviewed

To ensure that AQD's research efforts under GOJ-TF5 (Government of Japan Trust Fund Cycle 5) are on track and on schedule, a semi-annual progress meeting was held 13-15 July and 26 July. AQD Deputy Chief and GOJ-TF co-manager Dr. Teruo Azuma presided over the meeting, encouraging feedback and active discussion from the AQD study leaders who presented their preliminary results.

TF5 focuses on four areas namely: i) promotion of sustainable and region-oriented aquaculture practices; ii) food safety of aquaculture products in Southeast Asia; iii) accelerating awareness and capacity-building in fish health management in Southeast Asia; and iv) resource enhancement of internationally threatened and over-exploited species in Southeast Asia through stock enhancement. This new set of projects is being implemented from 2010 to 2014 under the ASEAN-SEAFDEC Strategic Partnership (ASSP) of the Fisheries Consultative Group mechanism. ❖

AQD promotes aquaculture at two fairs

Joining two fairs in the Philippines, AQD was able to promote its small-scale aquaculture technologies and technical assistance program for entrepreneurs. The first was in FishLink 2010, organized by the University of the Philippines Aquaculture Society and held on 20-22 September 2010 in Iloilo City. AQD fielded nine of its experts to handle short talks on various cultured species and resource enhancement for local governments.



FishLink 2010, ribbon cutting ceremony

In the Science and Technology Fair organized by the Department of Science and Technology from 15 to 17 September in Puerto Princesa, Palawan, western Philippines, AQD presented the mechanics of the Agree-build-operate-

transfer (ABOT) aquabusiness program. The audience, which included the Palawan Live Fish Traders Association, was mostly interested in grouper cage culture. ✕

SEAFDEC participates in the COFI Sub-committee Meeting on Aquaculture

SEAFDEC Secretary-General, Dr. Chumnarn Pongsri, Deputy Secretary-General, Mr. Kenji Matsumoto and SEAFDEC staff participated in the COFI Sub-committee Meeting on Aquaculture from 27 September to 1 October 2010 in Phuket, Thailand. Together with the delegations from FAO Member Countries, representatives from inter-governmental organizations and international organizations also attended the meeting. The Meeting endorsed the progress report on the implementation of the Code of Conduct of Responsible Fisheries (CCRF), Guidelines on Aquaculture Certification as well CWP Handbook for Aquaculture Statistics by Food Agriculture Organization (FAO).



Mr. Theera Wongsamut, Minister of Agriculture and Cooperatives, Thailand delivered the opening address on behalf of the Royal Thai Government

The Meeting noted the recommendations for future action on the need for regional fisheries bodies and aquaculture networks to work with FAO to avoid duplication and to maximize synergies for the benefit of members and that relevant international organizations should provide capacity building, identify the suitable potential commodities and assess the socio-economic of communities. In addition,

SEAFDEC as a member of CWP on Fishery and Aquaculture Statistics, was requested to provide expertise to enhance capacity building and also improve the methodologies in data collection as well as the streamlined definitions and standards used for statistics data collection.

In this connection, SEAFDEC reiterated to continue its efforts in assisting the Member Countries and would consider the recommendations from the Meeting and will by to incorporate them into its existing fishery statistics and information programs. ✕

AQD at fish health symposium in the USA

AQD Associate Scientist Dr. Ma. Michelle Peñaranda presented her paper entitled “Specificity of DNA vaccines against the U and M genogroups of infectious hematopoietic necrosis virus (IHNV) in rainbow trout (*Oncorhynchus mykiss*)” during the 6th International symposium for aquatic animal health held 4-9 September 2010 in Florida, USA. Her travel was sponsored by the University of Washington.

In addition to the symposium, Dr. Peñaranda was able to present AQD’s facilities and research interests at the Western Fisheries Research Center - US Geological Survey, Seattle, USA on 21 September 2010. ✕

TD joins national fishery exhibition in Thailand

The Training Department co-organized with the Department of Fisheries of Thailand the fishery exhibition “Pramong Nomklao” at the Future Park Department Store, Patumthani Province, Thailand, from 3 to 11 July 2010. The booth was visited by over 30,000 visitors and was envisaged to enhance the visibility and public awareness of TD. The theme of the TD’s exhibition was “Fish for the People 2020: Tuna-the Resource From Deep Sea”. Displayed during the exhibition were the world fishing ground of Tuna, the species of tuna in



Visitors participating in the activities at the TD booth

the world, tuna larvae, tuna purse seine and longline. Moreover, promotion and public relations of SEAFDEC was advanced via publications, brochures, VCDs, and related souvenirs. ✕

Tailor-made training course for Thai officers

Upon the request made by the Department of Fisheries (DOF) of Thailand, the Training Department organized the Tailor-made Training on the Strategy of Community Participation on Coastal Fisheries Management for twenty-six participants from 27 September to 6 October 2010 with full budgetary support from the DOF. The course focused on the modern principles and concepts of coastal fisheries and resources management; fishery extension and methodology; and strategies for community participation.

Moreover, the participants visited the pilot projects on Coastal Fisheries and Resources Management in Rayong

and Trat Provinces and discussed with the local people in the communities on their participation in the pilot projects. It is envisaged that the new experience and skills that the participants acquired from the training course and study tour, can be referred to when they carry out projects on Community Participation on Coastal Fisheries



Participants in the training course discussed on-site with local fisherman during their study tour in Rayong and Trat Province

Management in their respective offices. ☒

SEAFDEC participates in the global conference on Aquaculture 2010 “Farming the Waters for People and Food”

The ‘Global Conference on Aquaculture 2010 Farming the Waters for People and Food’ was organized from 22 to 25 September 2010, in Phuket, Thailand. The Conference had as its overall theme ‘Farming the Waters for People and Food’, and aimed to review the global aquaculture development, its status and trends as well as evaluated the progress made in the implementation of the Bangkok Declaration and Strategy on Aquaculture Development over the past decade. Some emerging issues were addressed as well as opportunities and challenges for future aquaculture development which were also assessed. In addition, the Conference aimed to build consensus on advancing aquaculture as a global, sustainable and competitive food production sector. Six thematic areas on key

aspects of aquaculture development management and sustainability in the coming decades were discussed during the Conference. These included: i) resources and technologies for future aquaculture; ii) sector management and governance; iii) aquaculture and the environment; iv) responding to market demands and challenges; v) improving knowledge, information, research, extension and

communication in aquaculture; and vi) enhancing its contribution to food security, poverty alleviation and rural development. The Conference was attended by various groups of experts and important stakeholders in the field of aquaculture, e.g. the academe, research institutes, inter/regional/local organizations, private sector as well as SEAFDEC Secretary-General, the



SEAFDEC’s Dr.Chumnarn Pongsri and Ms.Sawitree Chamsai at the Global Conference on Aquaculture 2010 Farming the Waters for People and Food

Assistant Japanese Trust Fund Manager and officers from the SEAFDEC Secretariat and Aquaculture Department also attended the Conference. The Conference concluded with the materials and outcomes which could be obtained from the NACA website (www.enaca.org). ☒

Ensuring the Sustainability of Small Pelagic Fishery in the Southeast Asian Region

MFRDMD, Kuala Terengganu, Malaysia

In the case of shared stocks, over-fishing in one area may lead to remarkable resources reduction in the whole area. The small pelagic stock in the South China Sea is strongly believed to be shared among countries bordering this ecosystem. Therefore, under the Japanese Trust Fund II program, collaborative efforts among SEAFDEC participating countries was considered crucial to ascertain this belief and to ensure efficient management of the stock. The second phase of the “Tagging Program for Economically Important Pelagic Species in South China Sea and Andaman Sea” (2007-2011) focused on tagging experiments to confirm the existence of subpopulation of the selected four pelagic fish species, namely: the Indian Mackerel (*Rastrelliger kanagurta*), Indo-Pacific Mackerel (*R. brachysoma*), Japanese scad (*Decapterus maruadsi*) and shortfin scad (*D. macrosoma*). Outcomes from this program could be used as scientific evidence to support the management of small pelagic fishery in the Southeast Asian region.

Regional Cooperation

SEAFDEC Secretariat, MFRDMD, TD and MFRD were involved in the program implementation from 2002 to 2006. Seven countries bordering the South China Sea, *i.e.* Brunei Darussalam, Cambodia, Indonesia, Malaysia, the Philippines, Thailand and Vietnam participated in the program.

Twenty-six sampling sites were identified in these countries for biological studies on the major small pelagic species groups such as mackerels and round scads.



Participants of the 3rd Core Expert Meeting on Tagging Program of Small Pelagics in March 2010

This Tagging Program is a sequel to the project on “Information Collection for Sustainable Pelagic Fisheries in the South China Sea”, which was part of the first phase of the Japanese Trust Fund (JTF) II program formulated as part of the follow-up action after the 2001 “ASEAN-SEAFDEC Conference on Sustainable Fisheries for Food Security in the New Millennium”. The project’s goal was to acquire information that would clarify the actual status of operation and catches of purse seine fishery targeting pelagic fishes and the biological characteristics of the pelagic fish resources. The project also examined the existence of under-exploited pelagic resources to maximize the utilization of catches.



Sampling sites for collecting catch and biological information in the South China Sea Area



Is this stocks shared by countries in the region?



Briefing of the local reporters of Malaysia on the tagging program of mackerel and round scad by MFRDMD team

Stock Identification

Results of the DNA analyses on Indian mackerel indicated that fish in Sihanoukville (Cambodia), Kuantan, Kota Kinabalu, Kunak and Kuala Perlis (Malaysia), Rosario (the Philippines), Samut Prakan (Thailand), and Chua Hoi and Nha Trang (Vietnam) belong to the same stock. The results were based on tissue samples taken from the adult migratory fishes in the South China Sea waters. The distributions of these pelagic species were influenced by environmental factors such as monsoon season and current movements. However, sub-populations of Indian mackerel in the South China Sea could not be distinguished from the results. Following that, more DNA samples should be sequenced in order to find clear genetic markers on various populations of pelagic fishes in the South China Sea waters.



Tagging of small pelagic species in the South China Sea waters

The migration path of small size fishes are quite limited compared with the larger size species. As for Cambodia, the fishes were sampled around several small islands. It is possible that the migration path of the fish is limited in some particular area. However, through these findings it is essential to conduct the tagging study of pelagic fishes for determining the migration pattern and also for obtaining better understanding on sub-populations of pelagic fishes in the South China Sea.

Indian mackerel was the only targeted small pelagic species found in all participating member countries. *Rastrelliger brachysoma* was not recorded in Brunei Darussalam and Indonesia. *Decapterus russelli* was only recorded in Indonesia, Cambodia and the Philippines. Relatively high composition of *Rastrelliger brachysoma* was observed in Cambodia while large percentage of *Decapterus russelli* was found in Indonesia.



Recommendations for the ASEAN Region

As the exploitation rates and the catch patterns of these three species *Restreliger kanagurta*, *Restreliger brachysoma* and *Decapterus russelli* were similar, regional coordination are required to conserve the spawning stock, to protect the spawning areas and to control fishing capacities.



For further information contact directly Mr. Abu Talib bin Ahmad and Mr. Abdul Razak Latun, Research Officers at abutalib@seafdec.org.my and abdulrazaklatun@seafdec.org.my, respectively. ☒

REGIONAL PROGRAMS

Expert Consultation on Managing Fishing Capacity to Combat IUU Fishing in Southeast Asia

SEAFDEC with support from the Swedish International Development Cooperation Agency or Sida, conducted the “Expert Consultation on Managing Fishing Capacity to Combat IUU Fishing in Southeast Asia” in Bangkok, Thailand on 15-17 September



Participants in the Expert Consultation on Managing Fishing Capacity to Combat IUU Fishing in Southeast Asia

2010 to address the growing concern and urgency among the ASEAN-SEAFDEC Member Countries on the need to combat IUU fishing in the region. Attended by representatives from ASEAN Member Countries, FAO-RAP, IMO, and non-ASEAN Member Countries (Australia and Timor-Leste), the Consultation aimed to follow up on the recommendations and requests made by ASEAN and SEAFDEC Member Countries to look beyond the elements of Port State measures, EC Regulations

or other international agreements in support fisheries management, improve cooperation among concerned agencies, and to develop a mechanism on “information sharing” among member countries in the region to address fishery overcapacity and combating IUU fishing.

It was discussed in the Consultation that definitions, terminologies, and classification of fisheries varies among the regional countries and should be resolved to promote enhanced

cooperation among Member Countries. The Member Countries requested SEAFDEC to compile, synthesize, and analyze licensing and registration system, catch documentation procedures, and Port State Measure of the Member Countries

to come up with a “harmonized” mechanism that can be utilized to address IUU fishing and standards of EC regulations. Other instrumentations like the Vessel Monitoring System (VMS) and Community-based Monitoring Control and Surveillance are essential tools in fishery management which are being utilized by the countries in the region, especially Malaysia, Indonesia, and Philippines. ❖

SEAFDEC at the ASEAN High Level Workshop on AFCC

SEAFDEC represented by Ms. Pouchamarn Wongsanga, Information Program Coordinator of the Secretariat, participated in the ASEAN High Level Workshop on the ASEAN Multi-Sectoral Framework on Climate Change: Agriculture and Forestry towards Food Security (AFCC), which was held on 21-22 July 2010 in Bogor, Indonesia. As endorsed at the 31st AMAF Meeting on the AFCC, this workshop was the first time for different sectoral bodies to discuss on the same concern on climate change, and where the outcomes of the workshop could provide guidance for its future implementation. At the Workshop, SEAFDEC had the

opportunity to deliver the Statement addressing the on-going initiatives and activities that complement the ASEAN cooperation on fisheries in the

implementation of AFCC. The Statement also included the up-coming ASEAN-SEAFDEC Conference on Sustainable Fisheries for Food Security Towards 2020 “Fish for the People: Adaptation to a Changing Environment” to be organized from 13-17 June 2011. It is envisaged that the Conference is timely and strategic in providing an overarching platform in laying down regional strategies and plan of action on fisheries, cutting across key policy directives and challenges including climate change.



Ms. Pouchamarn Wongsanga (center) representative from SEAFDEC participated in the ASEAN High Level Workshop on AFCC

The workshop concluded that development partners recognized AFCC as a regional climate platform that can be utilized as reference in developing collaboration and

(To be continued on Page 5)

AQD organizes and hosts FAO expert workshop

“On-farm feeding and feed management in aquaculture” was the topic of the expert workshop that AQD organized and hosted for the Food and Agriculture Organization (FAO) at the request of its Aquaculture Service (FIRA) from 13 to 15 September 2010 in Manila, Philippines.

From the global synthesis, regional reviews, and case studies in eight countries, the experts agreed that i) generally, the use of high quality feeds does not necessarily mean high returns, but that; ii) feed management protocols on-farm can significantly reduce costs by 15-20% and thereby increase profits of fish farmers. An illustration of the second point is the experience of a farmer in Vietnam, Mr. Nguyen Ngoc Hai, who heads a 36-member cooperative raising catfish. In his presentation, Mr. Nguyen said they are getting a benefit of about VND 923(US\$ 0.05) per kg fish when they reduced their feeding from twice to once a day even though the

culture period was longer by a month or so. Considering that the cooperative produces 150,000 tons, the savings from feed management is substantial.

He also said their farms have less disease incidence and the less-fatty catfish are more acceptable to processors.

The workshop identified these main issues in on-farm feeding and management: i) limited access of farmers to information on feed and feed ingredients as regards their availability, prices and quality; ii) poor feed preparation and processing at the farm level; iii) lack of monitoring of feed and farm performances; iv) weak extension and dissemination of new strategies on



Expert Workshop on On-farm Feeding and Feed Management in Aquaculture organized by AQD

improved feeding management (like alternate or skip feeding); v) gaps in the understanding of the economic aspects of feed management; vi) need to develop health indicators for farm stock and integrate these to feed management; and vii) need for mechanisms to regulated feed quality. There were 47 participants, 10 AQD staff and 5 observers who attended and listened to results of farm surveys in Bangladesh, China, India, Philippines, Thailand and Viet Nam, Egypt and Ghana.

(To be continued on Page 3)

Experts meeting on deep-sea fishing and its impact to the ecosystem

TD organized the Experts Meeting on Deep-sea Fishing and Its Impact to Ecosystem from 31 August to 2 September 2010 in Bangkok, Thailand. Twenty-one participants from the SEAFDEC Member Countries who are experts in deep-sea fishery resources exploration and particularly concerned on the impact of deep-sea fishing on the ecosystem, participated in this Meeting.

SEAFDEC has been supporting activities related to the exploration of fishery/living resources in the deep-sea waters of Southeast Asia through its various programs in close collaboration with its Member Countries. The overall objectives of the program are to explore ways of collecting information on deep-sea fishery resources in the Southeast Asian waters by providing support on the actual surveys using SEAFDEC's research vessels or national research

vessels; encourage the SEAFDEC Member Countries to explore their respective deep-sea fishery resources; and build human resources capacity on deep-sea fishery resources exploration.

As part of the international initiative on ecosystem-based approach for fisheries management, there is a need to know the impact of fishing to the deep-sea ecosystems. This expert meeting therefore provided an opportunity for scientists from the SEAFDEC Member Countries to better understand the impact of fishing on deep-sea ecosystem (particularly on the seabeds) and to share the experiences on the deep-sea fishery resources explorations conducted by the respective countries.

The three-day Experts Meeting was the first initiative of the region to gather the deep-sea scientists and

fishery researchers to discuss the topic focusing on the impact of fishing on the sea-bottom ecosystems considered as the most Vulnerable Marine Ecosystems of the ocean. In addition, this Meeting also provided a platform for an upcoming regional important event which is the “Regional Training Workshop on Research Methodologies for Study on Impact of Fishing on Deep-sea Ecosystem”, scheduled on 16-20 October 2010 in Brunei Darussalam. Thus, the outcomes of this meeting including a regional review of the initiatives related to the study on impact of fishing to deep-sea ecosystems, set of recommendations for regional study on impact of fishing on deep-sea ecosystem, and set of suggestions on the topic, would be included in the upcoming training/workshop on the study on the impact of fishing on deep-sea ecosystems that will be implemented in the region. ☒

BOBLME Stakeholders Workshop for Mergui/Myeik Archipelago

The Bay of Bengal Large Marine Ecosystem (BOBLME) conducted the Mergui/Myeik Archipelago Stakeholders Workshop on 13-14 July 2010 in Ranong Province hosted by the Asian Coastal Resources Institute Foundation (CORIN-ASIA) with financial support from the Food and Agriculture Organization (FAO). The Workshop was participated in by various concerned stakeholders such as officers from Thailand's Department of Fisheries, Department of Marine and Coastal Resources, local government officers, as well as representatives from research, and academic institutes, NGOs, private sector and local fishermen including representatives from the SEAFDEC-Sida project and SEAFDEC Training Department.

The workshop aimed to develop a workplan

for identifying the process and support to facilitate joint management of Mergui/Myeik archipelago. It was intended to develop recommendations and workplan for activities in the following areas: i) Establishment of environmental baselines and monitoring; ii) Alternative livelihoods; iii) Planning and management; and iv) Institutional arrangements. In order to manage

the vulnerability around the Mergui/Myeik Archipelago ecosystem, there were recommendations for national and regional levels to conduct further studies in many aspects needed for management and to set up bilateral committee between Myanmar and Thailand.

During the Workshop, SEAFDEC provided information on the results of the marine resource research survey in Mergui Archipelago by M.V. SEAFDEC 2. Important issues in fisheries and habitat management and the management of fishing capacity under the SEAFDEC-Sida project were also highlighted. In addition, the project has been implemented to support the process of developing regional and sub-regional agreements around Southeast Asia including the Andaman Sea. SEAFDEC will maintain the dialogue with BOBLME along this aspect. ☒



Participants in the BOBLME of Mergui/Myeik Archipelago Stakeholders Workshop

AQD holds training on abalone, marine fish, freshwater aquaculture

Eleven trainees completed AQD's International training course on abalone hatchery and grow-out on 8-28 July 2010. The trainees were from Malaysia, Philippines, and South Korea with three of them sponsored by the Government of Japan. In this course, lectures and practical sessions included abalone biology, principles of hatchery & seed production, feeds & feeding, principles of sustainable aquaculture, grow-out culture, industry experience of growing abalone, biology & grow-out culture of seaweeds, and financial feasibility & market potential of abalone. The trainees also visited a seaweed farm, AQD's Dumangas Brackishwater Station, and a private abalone hatchery.

Participant from the Marshall Islands in the Pacific Ocean attended the Special training on the hatchery of selected marine fishes which started 10 August.

From 23 to 24 April, 40 fishfarmers from northern Philippine towns in Rizal were in attendance for the Training on freshwater prawn and tilapia that was conducted in Filipino and in coordination with the Asian Social Institute. The course covered biology, how to rear prawns and tilapia in net cages including feeding management, and socioeconomic considerations in culture and marketing. There was also a practical session on the morphological identification of prawn broodstock and its larval stages.

Another course, Freshwater fish breeding and farming, was held from 17 May to 4 June, with three international participants. Two were from Burkina Faso, and funded by Japan International Cooperation Agency (JICA). The third participant was from the Freshwater Fishery Research Center (FFRC) in Wuxi, China whose participation is



Abalone feed preparation

in partial fulfillment of an existing agreement between FFRC and AQD. The course included an overview of freshwater culture, site selection & water quality monitoring, biology & induced spawning, larval rearing & growout, and nutrition & feeding of Asian catfish, freshwater prawn, bighead carp and tilapia. ☒

Regional training course on co-management

The Regional Training Course on Co-management Using Group's User Rights for Enhancing Small-scale Fisheries Development and Management was organized from 20 to 28 September 2010 at the Training Department.

Recognizing that coastal fishery recourses in many places of the world, particularly in the Southeast Asian region are over-exploited and has resulted in impacts on the local communities and the fishers' livelihood, co-management and rights-based fisheries for coastal fisheries management have been promoted to the Southeast Asian region in order to boost coastal fisheries resources management by means of the local fisher's participation in the management.



Participants in the regional training course on co-management using group user rights for enhancing small-scale fisheries development and management

In 2005, the Regional Guidelines on Co-management Using Group's User Rights for Small-scale fisheries were developed and distributed, but co-management concept is still considered quite new for the region and might be difficult for fishers, fisheries officer

and policy makers to understand. The course therefore aims to transfer the knowledge and skills on co-management and participatory approach specifically focusing on the areas of defining and sharing responsibilities and functions between the local user-based management body or organization and government-based agency to carry forward the concepts of coastal fisheries management. An introduction of rights-based fisheries management is presented to provide supportive tool for strengthening small-scale fishers' capacity in coastal fisheries management. Some case studies or projects of TD were used as a study site for the course work and discussions, including participatory research method.

(To be continued on Page 2)

Regional Technical Consultation on Post-harvest and Safety of Fish and Fisheries Products in Southeast Asia

As part of the preparatory work for the ASEAN-SEAFDEC Conference on Sustainable Fisheries for Food Security Towards 2020: Fish for the People 2020, MFRD organized and conducted the Regional Technical Consultation (RTC) on Post-harvest and Safety of Fish and Fisheries Products in Southeast Asia in Singapore on 20-22 July 2010. The RTC was attended by representatives from national institutions involved in development of fisheries post-harvest and safety systems in the ASEAN Member Countries, and country coordinators of the ASEAN Fisheries Post-harvest Technology Network (AFPHTN). They included representatives from Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand and Vietnam, as well as an officers from the SEAFDEC Secretariat, TD, MFRD staff, and MFRD Consultant. In total, the RTC had

31 participants.

The agenda of the RTC included country presentations on the status of the implementation of the Resolution and Plan of Action from the Millennium Conference 2001, discussion and identification of key issues, challenges and recommendations on post-harvest and safety of fish and fisheries products that need to be addressed in the next 10 years, within the context of the three sub-themes, namely, Improving of Fish Handling, Processing and Preservation, Improved Traditional Products and Quality, Safety and Control Systems for Fish Products. In addition to the participation of its respective experts during the RTC, the ASEAN Member Countries were also



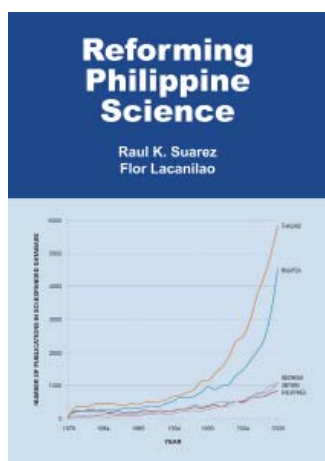
Group discussion on post-harvest and safety of fish and fisheries products

responsible for organizing National Seminars in their respective countries to consult with stakeholders in fisheries and related industries and obtain their views, opinions and information on key issues, challenges and their recommendations for the theme and sub-themes on post-harvest and safety of fish and fisheries products. ☒

FUTURE ACTIVITIES

Date	Venue	Title	Organizer
2010			
16-20 August	Binangonan, Philippines	Training Course on Carp Hatchery and Grow-out Operation	AOD
17-19 August	Bangkok, Thailand	2 nd ASEAN-SEAFDEC Regional Technical Consultation on Fisheries Human Resources Development (HRD) for Poverty Alleviation	Secretariat
31 August-2 September	Bangkok, Thailand	Expert Meeting on Deep-sea Fishing and Its Impact to Ecosystem	TD
1-4 September	Korea Rep.	3 rd Session of the APFIC Regional Consultative Forum	APFIC
6-8 September	Korea Rep.	31 st Session of the Asia Pacific Fishery Commission (APFIC)	APFIC
6-23 September	Samut Prakan, Thailand	A Short Term Training Program in Coastal Fisheries Management and Extension Methodology	TD
13-14 September	Bangkok, Thailand	Tuna Conference 2010	INFOFISH
13-17 September	Binangonan, Rizal, Philippines	Training Course on Freshwater Prawn Hatchery & Grow-out Operations	AOD
15-17 September	Bangkok, Thailand	ASEAN-SEAFDEC Expert Consultation on Managing Fishing Capacity to Combat IUU Fishing	Sida
20-28 September	Samut Prakan, Thailand	The Regional Training Course on Co-management Using Group's User Rights for Enhancing Small-scale Fisheries Development and Management	TD
22-25 September	Phuket, Thailand	Global Conference on Aquaculture	FAO-NACA
27 September-1 October	Phuket, Thailand	5 th Session of the COFI Sub-Committee on Aquaculture	FAO
27 September-6 October	Samut Prakan, Thailand	Training Course on improvement on opinion and Methodology in Integrated Coastal Fisheries Management for Thai Officer	TD
29 September- 19 October	Tigbauan, Iloilo, Philippines	Training Course on Abalone Hatchery and Grow-out	AOD
2 October	Phuket, Thailand	Coordinating Working Party on Fisheries Statistics (CWP)-Intersessional Aquaculture Group Meeting	FAO
5 October-25 February 2011	Samut Prakan, Thailand	Training Course on Fishing Vessel Operation for Tinsulanonda Fisheries College	TD
6-8 October	Manila, Philippines	11 th Information Staff Exchange Program Meeting (ISEP)	AOD
6-22 October	Tigbauan, Iloilo, Philippines	Special Training Course on Crab Seed Production and Grow-out	AOD
11 October	Bangkok, Thailand	Department's Chief Meeting	Secretariat
12-14 October	Singapore	Regional Technical Consultation on Traceability Systems for Aquaculture Products in the ASEAN Region	MFRD
12-15 October	Samut Prakan, Thailand	Regional Technical Consultation on Sustainable Fisheries Management	TD
12-26 October	Tigbauan, Iloilo, Philippines	1 st Training Course on Seed Production and Nursery of Sandfish (<i>Holothuria scabra</i>)	AOD
16-20 October	Brunei Darussalam	Training Workshop on Research Methodologies for study on Impact of Fishing on Deep-sea Ecosystem	TD
18-22 October	Bangkok, Thailand	World Small-Scale Fisheries Congress	CDC
18-29 October	Samut Prakan, Thailand	Short term Training Course on Fishing Technology for University Students	TD
8-17 November	Tigbauan, Iloilo, Philippines	Training Course on Community-based Freshwater Aquaculture	AOD
13-26 November	Samut Prakan, Thailand	The International Training Course on Coastal Fisheries Management and Extension Methodology	TD
22 November-4 December	Tigbauan, Iloilo, Philippines	Special Training Course on Fish Nutrition	AOD

New publication



Reforming Philippine Science, 95 pages, is an edited compilation of articles, previously posted in websites or published as newspaper articles, by Raul Suarez and Flor Lacanilao. Suarez is a professor at the University of California, Santa Barbara, USA. Lacanilao is a retired Professor of Zoology at the University of the Philippines (UP) Diliman, former Chancellor of UP Visayas, and former Chief of SEAFDEC/AQD. The authors argue for the importance of science as the foundation of technological development and economic progress. They draw on various sources to argue that scientific literacy is essential to the health of democracy and of society. The book is published by AQD with funding from the US National Science Foundation. ❖

The Second Regional Technical Consultation on HRD for Poverty Alleviation

The Second Regional Technical Consultation (RTC) on Human Resources Development for Poverty Alleviation through Fisheries Intervention in the ASEAN Region was organized by SEAFDEC Secretariat from 17 to 19 August 2010 in Bangkok, Thailand. This RTC was part of the Project on the Human Resources Development for Poverty Alleviation through Fisheries Intervention aiming to alleviate rural poverty by fisheries intervention and promote rural food security in the beneficiary areas and the countries, through enhancement of human capacity at fishery community level by mobilizing regional expertise and experiences as well as maximizing the participation of government officials.

The RTC discussed the experiences of the project participating countries

in the implementation of activities, including the linkages of fisheries and the poverty alleviation, lessons learned from the HRD activities and follow-up activities on National Policy for Poverty Alleviation and Food Security by Fisheries Intervention.

The RTC came up with its major output which is the Regional Policy Recommendations for Poverty Alleviation by Fisheries Intervention, which would be further submitted to the high authorities both in SEAFDEC and ASEAN to seek policy support for alleviating poverty in rural fisheries communities of the ASEAN region. ❖

Note for contributors

The SEAFDEC Newsletter publishes quarterly news on all aspects of fisheries in Southeast Asia. The Editors reserve the right to accept and/or abridge articles based on available space. Anyone wishing to submit an article to the SEAFDEC Newsletter is requested to send it to the Editor in Chief or Editors at the given addresses.

Information in this Newsletter may be quoted only if reference is made to SEAFDEC.

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Regional Training Course in Biotoxins Analysis

Under the Japanese Trust Fund II Project on “Chemical and Drug Residues in Fish and Fish Products in Southeast Asia - Biotoxins Monitoring in ASEAN”, MFRD organized and conducted a Regional Training Course in Biotoxins Analysis in Singapore from 27 June to 8 July 2010.




Participants in Regional training course in Biotoxins Analysis

The regional training course was successfully conducted in the Toxins Laboratory in the Veterinary Public Health Centre of the Agri-Food and Veterinary Authority (AVA) of Singapore. Twenty participants from the ASEAN Member Countries participated in the training course. Three Japanese experts, Dr. Suzuki Toshiyuki and Dr. Ryuichi Watanabe from the National Research Institute of Fisheries Science, Japan and Dr. Yasukatsu Oshima from Kitasato University were the lead trainers of the course. The trainers were also invited through the Oasis Solutions Pte Ltd and Tropical

Technology Centre, Japan, to conduct the sessions on rapid methods for biotoxins analysis. Five methods for analysis of various biotoxins were taught in the training course, namely: i) Multi-component of Diarrhoetic Shellfish Poisoning (DSP) and lipophilic toxins (Yessotoxin (YTX), Pectenotoxins (PTX)) using High Performance Liquid Chromatography Tandem Mass Spectrometer (LC/MS/MS) method; ii) DSP rapid method; iii) Paralytic Shellfish Poisoning (PSP) using High Performance Liquid Chromatography (HPLC); iv)

PSP ELISA rapid method; v) Tetrodotoxin (TTX) using LC/MS/MS.

These methods were selected based on feedback from the Member Countries on the methods they wish to build up their capability in, during the RTC held in 2009.

It was envisaged that the participants of the training course will set up the biotoxins analysis methods in their respective countries after the training. The respective Member Countries will then conduct a survey on biotoxins monitoring commencing in 2011 until 2012. It was decided during the Regional Technical Consultation in 2009 that the survey would focus on PSP in green mussel/baby clam. The Member Countries were expected to submit their results to MFRD for collation into a Technical Compilation of Biotoxins Monitoring in ASEAN. 

SEAFDEC Secretary-General in Japan

SEAFDEC Mission, led by the Secretary-General Dr. Chumnarn Pongsri, visited Japan on 14-16 July 2010. The visit aimed to promote closer collaboration and support from the Government of Japan and relevant institutions to SEAFDEC and the ASEAN-SEAFDEC Conference “Fish for the People 2020” to be organized from 13 to 17 June 2011 in Bangkok,



SEAFDEC Technical Support Committee

Thailand. During his stay in Japan, courtesy calls were made to several key persons in relation to the Conference, including Mr. Katsuhiko Machida, the Director General of Fisheries Agency of Japan, Mr. Jun Yamashita, the Deputy Director General of Fisheries Agency of Japan; Mr. Toshihiko Matsusato, the President of Fisheries Research Agency; Mr. Masaji Matsuyama, the President of Tokyo University of Marine Science and Technology; and senior staff of Ministry of Foreign Affairs.

During the courtesy call to Mr. Machida, Dr. Chumnarn requested the Fisheries Agency to continue its efforts in securing the contribution of the Japanese Trust Fund to SEAFDEC, as well as its support and cooperation to SEAFDEC and Member Countries. In



Courtesy call of SEAFDEC Secretary-General to Mr. Machida, Director General of Fisheries Agency of Japan

the discussion, Mr. Machida provided positive indication of support from the Fisheries Agency to SEAFDEC in the form of the regular contribution, the dispatch of experts and the Trust Fund Program as far as possible under the severe financial situation in Japan.

(To be continued on Page 3)