

SEAFDEC AQD Matters

In-house newsletter of the SEAFDEC Aquaculture Department, Tigbauan, Iloilo

To our various funding and collaborative partners, our stakeholders, there would be no reason for AQD's existence if not for you ... We will continue to value scientific research as the prime mover for technology development.



DR. JOEBERT TOLEDO
AQD CHIEF

We should recognize that we are public servants for ordinary people, because our salary comes not from the Government but from the ordinary people, who are our customers, our bosses.



DR. HIROSHI OGATA
AQD DEPUTY CHIEF

The Philippine government has long recognized the thrust of SEAFDEC/AQD on harnessing research and extension for poverty alleviation and livelihood generation. This complements the long-term objectives of the Department of Agriculture and that of our agency, the Bureau of Fisheries and Aquatic Resources.



MR. GIL ADORA
BFAR ASST. DIRECTOR

AQD turns 35

“The coral anniversary theme is ‘Strengthening the legacy of responsible aquaculture in Southeast Asia.’ The theme certainly begs an explanation. What is this SEAFDEC/AQD legacy that has been given to the industry? Allow us to count,” began AQD Chief Dr. Joebert Toledo in his message during AQD’s 35th Anniversary Program held last July 11 at AQD’s Tigbauan Main Station.

Among the legacies he cited centered on (1) tiger

- shrimp and milkfish; (2) diversified aquaculture; (3) scientific research; (4) skilled manpower or skilled womanpower for Southeast Asia; (5) fishfarmer-friendly materials, of information dissemination to support technology transfer efforts; and (6) responsible aquaculture and fisheries.

Dr. Toledo articulated two more legacies that he wants his generation of AQD researchers to leave in the future. The first is the legacy of a systematic and institutionalized technology transfer mechanism backed by scientific research. The second is the legacy of publishing research findings in science journals as the prime movers for technology development and innovation to ensure that AQD’s research will continue to be available to SEAFDEC member-countries in perpetuity. *(Read the full transcript of the speech at <http://aqdnews.blogspot.com/2008/07/dr-jd-toledo-legacy-of-seafdec.html>)*

Also gracing the affair was Bureau of Fisheries and Aquatic Resources (BFAR) Assistant Director Gil Adora, who

represented BFAR Director (and SEAFDEC Council Director for the Philippines) Atty. Malcolm Sarmiento Jr. In his written message, Atty. Sarmiento congratulated AQD for “chalking up 35 years of solid and meaningful contributions to the cause of sustainable development and responsible stewardship of aquaculture resources in Southeast Asia.” *(Read the full speech at <http://aqdnews.blogspot.com/2008/07/da-bfar-expresses-support-for.html>) >2*



Top right: AQD Chiefs, in portraits: (1st row) Dean Domiciano Villaluz (1973-79); Dr. Rogelio Juliano (1979-80); Dr. Flor Lacanilao (1981-82, 1986-92); (2nd row) Dr. Alfredo Santiago Jr (1983-86); Dr. Efred Ed. Flores (1992-96); Dr. Rolando Platon (1996-2006); (right) Dr. Joebert Toledo (2006-present)

Right: AQD Chiefs, in the flesh, gracing the 35th year celebration: (from left) Dr. Platon, Dr. Juliano, Dr. Lacanilao, Dr. Toledo, and Dr. Flores



Clockwise from top left: Belly dancers (from left: Ms. Dianne Hope Tormon, Ms. Josette Gonzaga, Dr. Fe Dolores Estepa, Ms. Bianca Pitogo, and Dr. Celia Pitogo) get their groove on; AQD personnel and guests compose the packed crowd; AQD Librarian Amelia Arisola receives her certificate of recognition from Dr. Ogata and Dr. Toledo

For his part, AQD Deputy Chief Hiroshi Ogata, as the representative of Japanese experts, expressed his appreciation to all who have actively participated in the implementation of the programs, and hoped that tangible results and accomplishments from the Japanese Trust Fund Programs can be appreciated by the end user. He likewise urged AQD employees not to forget to recognize that the ordinary people are AQD's "boss[es]." (*The full transcript*

: of the speech can be read
: at <http://aqdnews.blogspot.com/2008/07/dr-hiroshi-ogata-ordinary-people-are.html>)

: Another highlight of the
: program was the unveiling of
: portraits of past and present
: AQD Chiefs. To wit, Dr.
: Rogelio Juliano, Dr. Efrén
: Ed Flores, Dr. Flor Lacanilao
: and Dr. Rolando Platon were
: present during the occasion.
: AQD employees who have
: logged more than 20 years
: of service were also awarded
: during the ceremony.

: Happy 35th, AQD!

Dr. AC Alcalá bats for establishment of more MPAs

Marine protected areas (MPAs) could not only give fishers increased catch, but could also be an ecotourism destination.

This is the gist of the talk given by Dr. Angel Alcalá, director of the Silliman University Angelo King Center for Research and Environmental Management. Dr. Alcalá gave the 2008 Dean Domiciano K. Villaluz Memorial Lecture on Marine ecological research for resource management last July 8, 2008 at the Tigbauan Main Station of SEAFDEC/AQD in Iloilo, Philippines.

The MPA concept: 20-30% of the total marine reserve is designated as a "no-take-zone," which means that fishing within this area is prohibited. The remaining 70-80% area may be used for fishing using non-destructive gear, such as hook and line.

By giving fish a protected habitat, they are given more opportunities to grow into bigger sizes and breed. This in turn creates a "spillover effect," wherein fish migrate onto the non-protected area of the reserve. Dr. Alcalá noted that with protection, catch could reach 15-20 tons of fish per square kilometer; compared

: with just 5-10 tons without
: protected areas.

: This setup has had its share
: of success stories, most notably
: the Apo Island and Sumilon
: marine reserves. According
: to Dr. Alcalá, ecotourism
: receipts reach about P700,000
: per year. In addition, around
: 150,000 coastal fishers have
: benefited from the spillover,
: which resulted to increased
: fish catch of about 10% per
: year. The concept of no-take
: reserves has also been adopted
: by other countries. The Shedd
: Museum in Chicago has
: in fact showcased the Apo
: Island model of coral reef
: conservation.

: The successful
: implementation is the result of
: more than 20 years of research
: and monitoring, community-
: based coastal resource
: management (CBCRM), and
: support from local government
: units (LGUs), national agencies
: and NGOs. He noted that
: CBCRM is a relatively slow
: process, but if done right, could
: result to sustained management.
: He also stated that MPAs work
: under the situation where
: LGUs are also involved in its
: management.

: Still, a lot of catching up has
: to be done: only 20% of MPAs
: in the Philippines is functional;

: the rest exist mainly on paper,
: according to Dr. Alcalá.

: What are the policy/
: program implications? Dr.
: Alcalá cited the need to (1)
: establish more MPAs to
: conserve biodiversity and
: combat climate change; (2)
: conduct coastal resource
: management training activities;
: (3) establish deep-water
: reserves; and (4) strengthen the
: capacity of LGUs for CRM.

: Dr. Alcalá closed his lecture
: with a quote from Edward O.
: Wilson, a noted writer: "at
: the end of the day, in a more
: democratic world, it will be
: the ethics and desires of the
: people, not their leaders, who
: give power to government and
: the NGOs or take it away. They
: will decide if there are to be
: more or fewer reserves, and
: choose whether a particular
: species will live or die."

: Dr. Alcalá was the former
: Secretary of the Department
: of Environment and Natural
: Resources. He was the recipient
: of the Ramon Magsaysay
: Award for Government Service
: in 1992.

: The Dean Domiciano K.
: Villaluz Memorial Lecture
: is being held every year to
: honor Dean Villaluz, who was
: SEAFDEC/AQD's first chief
: from 1973-1979.

IT TENDENCIA



From top: Dr. Alcalá, discussing the merits of MPAs with Dr. Hiroshi Ogata

AQD scientist is best paper awardee

Congratulations are in order for AQD's Ms. Eleonor Tendencia as she garners a



IT TENDENCIA

prestigious award for her published paper. Entitled *Polyculture of green mussels, brown mussels and oysters with shrimp control luminous bacterial disease in a simulated culture system*, the paper was selected as the Best Published Paper in Aquaculture/Inland Fisheries by the Dr. Elvira O. Tan Memorial Awards for 2008. Ms. Tendencia was

honored during the Science Community's celebration of the National Science and Technology Week on July 18, 2008 at the D.L. Umali Auditorium College, Laguna, Philippines. She is currently a PhD candidate of Aquaculture and Fisheries of Wageningen University, The Netherlands. Read this award-winning paper in the journal *Aquaculture* 272:188-191.

AQD @ JSPS dinner, ASEAN S&T Week

AQD was not unrepresented in two aquaculture-relevant gatherings held last July 4 and 7.

Dr. Maria Rowena Eguia attended a dinner meeting with the Japan Society for the Promotion of Science (JSPS) officials from Bangkok and

Tokyo and hosted by JSPS for Rongpaku Fellows last July 4 at the Legend Restaurant in Manila. The meeting aimed to promote JSPS programs – particularly the Rongpaku PhD programs – to prospective Filipino applicants. She also saw this as an opportunity to foster AQD's relationship with

the Department of Science and Technology and JSPS. She also noted that several AQD researchers have been grantees of JSPS Rongpaku themselves.

Dr. Eguia was also present during the opening ceremonies of the ASEAN Science and Technology Week last July 7. The affair was attended by no less than Pres. Gloria Macapagal-Arroyo, who was on hand to give awards to two scientists from the Philippines and Singapore for their contributions to science. The event, which is held every three years, ran from July 7-11 at the World Trade Center in Pasay City.



MRR EGUIA

From left: Dr. Eguia (leftmost) with other JSPS Fellows; Pres. Arroyo (4th from left) at the opening ceremonies of the 8th ASEAN Science & Technology Week



AQD, Red Cross team up for blood drive

There was blood shed on July 8, 2008, but for a good cause.

By donating about 30 minutes of their time and a glass of their blood, AQD personnel and their kin did their part in

saving lives by ensuring that those in need could avail of this precious fluid.

In cooperation with the Philippine National Red Cross (PNRC), the bloodletting activity was held at the Conference Room at AQD's Tigbauan Main Station in Iloilo, Philippines.

Dr. Dennise Roy Pasadilla of PNRC gave a pep talk prior to the donation, wherein he explained the procedures and the benefits of blood donation. Among the requirements: the donor – a healthy male or female – must weigh at least 110 lbs (50 kg); must be 18-60 years old (although regular

donors can keep giving blood until age 65); and must have a minimum acceptable hemoglobin of 12.5% for females and 13.5% for males as determined by the PNRC's medical technologist. After further screening and blood typing, the donors then proceeded to have their blood taken.

In the end, 35 bags of blood were collected from 35 donors, who each shed about a glass (around 230 cc) of their blood.

Saving lives and celebrating its 35th anniversary, AQD is committed to strengthening the legacy of responsible aquaculture in Southeast Asia.



IT TENDENCIA

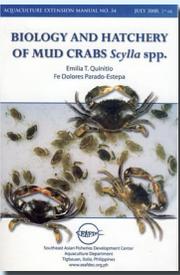


New AQD publications

Hot off the press: four new AQD publications for sale.

These, plus new flyers, reports, an institutional

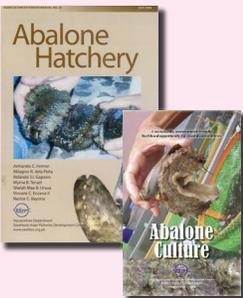
video, and a compendium of SEAFDEC-developed technologies were unveiled last July 9 at AQD's Tigbauan Main Station, Tigbauan, Iloilo during the book launching program. The launching was one of the activities lined up for the 35th anniversary of AQD.



AEM 34 2nd edition *Biology and hatchery of mud crabs Scylla spp.*

By ET Quintio, FDP Estepa

Dr. Emilia Quintio said that the manual contains simple step-by-step procedures on the hatchery operation of mud crabs. Among the improvements in the second edition include the rearing of larvae to fly size crablets (0.6-1.2 cm) in tanks. This stage is acceptable to growers because it costs less than the bigger crablets usually stocked in ponds and adapts easily to pond conditions. She also conveyed that a separate manual for nursery is being worked on this year, and expressed hope that the manual "propel the mudcrab industry to greater heights."

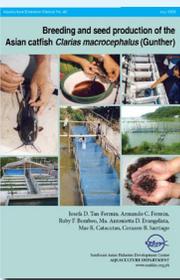


AEM 39 *Abalone hatchery*

By AC Fermin, MR dela Peña, RS Gapasin, MB Teruel, SM Ursua, VC Encena, NC Bayona

Flyer
Abalone culture

Mr. Armando Fermin said that abalone is one of the hottest aquaculture species worldwide, but stocks in the wild are rapidly declining. Among the milestones he cited: the mass production of abalone in 1998; the improvement of seed production techniques in 2002; the conduct of the first training on abalone in 2005; and the establishment of a P15-million National Abalone Breeding Program in 2007, a collaborative project of AQD and DA-BFAR.



AEM 40 *Breeding and seed production of the Asian catfish Clarias macrocephalus*

By JDT Fermin, AC Fermin, RF Bombeo, AD Evangelista, MR Catacutan, CB Santiago

Dr. Josefa Tan-Fermin told the crowd that initially, she wanted to continue working on marine commodities, since she initially worked on milkfish, grouper and tiger shrimp. She was "forced" to work on this commodity upon her transfer to BFS, which turned out to be a good thing: when she applied to study in Japan, the laboratory of her prospective professor was on Reproduction of Freshwater Fishes; he chose that Dr. Fermin pursue catfish instead of grouper (she was simultaneously working on sex change of grouper that time). Dr. Tan-Fermin said that her work made her appreciate the role of science and technology in food security and poverty alleviation.



AEM 41 *Grow-out culture of the Asian catfish Clarias macrocephalus*

By EB Coniza, MR Catacutan, JDT Fermin

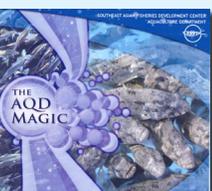
Mr. Eliseo Coniza shared to the crowd that his fondness for catfish dates back to his childhood, when the species was still bountiful in its natural habitat. He noted that catfish is disappearing rapidly in the present due to pesticides and overfishing, among other factors. He said that the manual is the fruit of their labor; he further conveyed hope that this manual could enhance the development of the catfish industry in the Philippines.



DVD *Compendium of Aquaculture Technologies*

By Development Communication Section (Devcom) and Library & Databanking Services Section

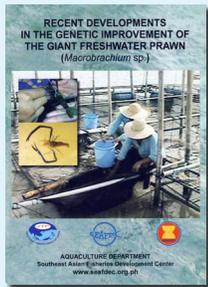
Ms. Milagros Castañon talked about the contents of the compendium, which was a summary of aquaculture as developed and promoted by AQD. The DVD contains the technology profiles including profitability of the hatchery and grow-out of abalone, mud crab, tiger shrimp, grouper, milkfish, catfish, seabass, tilapia, freshwater prawn and seaweeds. Videos, links to general references and PDF files of flyers, newsletters and relevant information materials are likewise contained in the DVD. The AQD Magic, on the other hand, is AQD's institutional video; 3- and 10-minute versions are also contained in the DVD. One feedback came from former AQD scientist Dr. Felicitas Pascual, who was glad and thankful that, with the compendium, their work will not be forgotten.



Video *The AQD Magic*

By Devcom

ITTENDENCIA

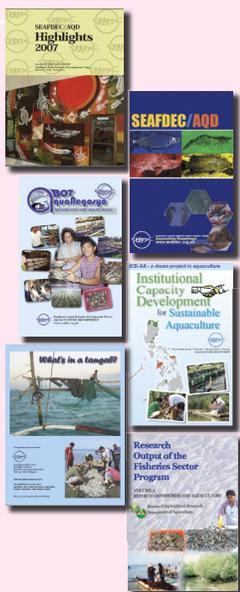


Report

Recent Developments in the Genetic Improvement of the Giant Freshwater Prawn (Macrobrachium sp.)

By MRR Eguia, MLC
Aralar (compilers)

Dr. Rowena Eguia noted that this publication contains results from the research project ‘Development of genetically improved strain of *Macrobrachium*’ and conducted in Thailand, Indonesia and the Philippines for six years. She thanked the Government of Japan Trust Fund for funding this endeavor.



Reports

*Highlights 2007
Research Output of the Fisheries Sector Program (FSP)*

By Devcom

Flyers

*ABOT AquaNegosyo
Institutional Capacity Development for Sustainable Aquaculture (ICD-SA)
SEAFDEC/AQD*

By Devcom

What's in a Tangab?

By FishWorld

Mr. Renato Agbayani gave a brief background on the publications. Highlights 2007 contains information on AQD’s partnerships and agreements and R&D projects for the year. The FSP reports and booklet of abstracts is packaged into a CD in PDF format and was funded by the Bureau of Agricultural Research. The ABOT flyer describes the benefits of partnering with AQD in the establishment of various aquaculture ventures. The ICD-SA flyer, on the other hand, contains information on AQD’s partnerships with community-based organizations and local government units. The SEAFDEC/AQD flyer meanwhile has general information on the mission, vision and programs of AQD. The *tangab* flyer deals with the *tangab* fishery in Iloilo Strait, including its operations, catch volume and species composition, economic importance, and ecological impact.



Research seminars for July

July 17

Explorations of functional biodiversity: fuel use during exercise

by Dr. Raul Suarez
Ecology, Evolution and Marine Biology
Department, University of California

Settlement, growth and survival of the Donkey's ear abalone *Haliotis asinina* (Linné)" in response to diatom diets and attachment substrate

by Ms. Milagros dela Peña
SEAFDEC/AQD

July 24

A review of mangrove rehabilitation in the Philippines – Successes, failures and future prospects

by Dr. Jurgenne Primavera
PEW Fellow in Marine Conservation

July 31

Enhancement of immunity in shrimp (*Penaeus monodon*) for preventive management of white spot syndrome virus (WSSV) infection

by Dr. Edgar Amar, SEAFDEC/AQD



From left: Dr. Suarez, Ms. dela Peña, Dr. Primavera and Dr. Amar

Contributions from AQD employees are always welcome!

Please send text separately from your JPEG photos (300 dpi or better). Devcom also uses these materials to update the AQD website and as SEAFDEC Newsletter articles. Having the original text and photos would give us more flexibility

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Thanks to our colleagues who provided facts, images and feedback

BFS turns 32

With the theme, *Hito pa rin kami - 32 taon ng akwakultura*, AQD's Binangonan Freshwater Station celebrated its founding anniversary last July 31.

Why *hito* or catfish? BFS has promoted traditional high-priority commodities like tilapia and carp before, and the staff surmised that it is high time the catfish also get its due.

AQD staff and guests took part in the anniversary program held at the lobby of the Training Building at the BFS. The program conducted in the morning was mostly

SEAFDEC-centric, with Mr. Mateo Yap, Palaro 2008 coordinator, announcing the winners of the games. Certificates of recognition were awarded to staff retirees Ms. Aida Arago and Ms. Maria Geronilla. Loyalty awardees, Messrs. Ruel Eguia and Manuel Laron, Ms. Antonietta Evangelista and Dr. Ma. Lourdes Aralar, received their awards for more than 20 years of service to AQD from BFS Head Emiliano Aralar and Manila Office Head Grace Garcia.

A highlight in the afternoon was Dr. Aralar's

presentation on BFS' 32 years, where she enumerated various milestones and contributions. Ms. Evangelista then gave a lecture on catfish breeding and farming, followed by an open forum with two fishfarmers giving their take on catfish rearing based on their experiences.

Complimentary copies of AQD publications – including the newly launched catfish manuals, second-edition Filipino tilapia manuals, the compendium on the giant freshwater prawn and several flyers – were distributed to recipients from the local government of Binangonan, Rizal; University of Rizal System; Pipindan Elementary School; MPC Water Cooperative; Rizal Provincial Jail; Barangay Fisheries and Aquatic Resource Management Councils (BFARMCs); and the private sector (CDO Foodsphere, Frabelle Fishing Corporation).

Thirty-two years from its founding on July 29, 1976, BFS personnel can still proudly say, "*Hito pa rin kami.*" Congratulations!



Counter-clockwise from top: BFS and MO personnel; recipients of AQD publications with their goodies; awarding of prizes for the Palaro 2008; retirees Ms. Geronilla and Ms. Arago; Ms. Evangelista explains the contents of one of the catfish manuals; Dr. Aralar goes on a BFS trip down memory lane; enjoying their sumptuous lunch; Mr. Laron tours FARMC guests



PALARO 2008

After the players have played their last games and the arbiters have tallied their sweat-stained scoresheets,

it's official: Team *Chanos* trumped Team *Penaesus* in Palaro 2008. The final score, 145-125, was not the nail-biter that it was a year ago when Rust Team triumphed over Mint Green Team by one point, but the games have been no less fun.

The second batch of parlor games and the awarding of prizes were held in the afternoon of July 11 at AQD's Tigbauan Main Station. Deputy Chief Dr. Hiroshi Ogata and Dr. Relicardo Coloso, Palaro 2008 chairman, were on hand to present the awards.

The teams duked it out in a variety of games, including basketball, tennis, soccer, board games, bowling, chess, and parlor games.

This year's theme was *Nurturing a healthy lifestyle among AQD staff through exercise and sports*. With this in mind, everyone's a winner!

The games people play: (clockwise from bottom) It was a bottom's up affair during the beer drinking contest; the island hopping contest saw the players with both feet on the ground; synchronized walking was the key in winning the *kadang* race; and the women's football winners, all smiles with their victory



Aquaculture Week 2008 Contest Winners

Bring, Show, and Tell: "Food from the mangroves"

5 contestant teams from 5 elementary schools (ES)

Prize	Winners	Age	Gr	School
1st	Alia Angelica Tesoro	12	6	Iloilo Central
	Erika Jane Barretta	12	6	ES
	Coach: Marjorie Nerecena			
2nd	Stephanie Joy Legarda	11	6	Colegio del
	David Joshua Tayaba	11	6	Sagrado
	Coaches: Jinky Rull			
	Ofelia Lingaya			
3rd	Wilfredo Torrecampo			
	Kristine Joyce Arnaiz	11	6	Kinaadman ES
	Austinn Nathaniel Toledo	11	6	
	Coaches: Catherine Capeñanes			
Ma. Sol Tabilog				

Nutrition and Aquaculture Quiz

34 contestants from 17 elementary schools

Prize	Winners	Age	Gr	School
1st	Danielle Liza Molina	10	5	Central Phil
	Coach: Mary Ann Saladar			
2nd	Shannen Abenido	12	6	Iloilo Central
	Coach: Juvy Gustilo			
3rd	Patrick Jules Susmiran	12	6	Sta. Barbara
	Coach: Jessica Sequito			
				Central ES

Write, Draw, and Tell a Fish Story: "The coral reef is my home"

12 contestant teams from 12 elementary schools

Prize	Winners	Age	Gr	School
1st	Anne Katherine Chong	10	5	Central Phil
	Zulein May Gardose	11	6	Univ. ES
	Coaches: Shiela Sorilla			
				Susan Herga
2nd	Christian Jinn Hermano	11	6	Colegio del
	Farrah Deanne Guzman	11	6	Sagrado
	Coaches: Ofelia Lingaya			
	Wilfredo Torrecampo			
3rd	Hans David Hoffman	12	6	Kaunlaran
	Gerard Carreon	10	5	Learning Center
	Coach: Alfonso Mesinas			
				Foundation Inc.

Aquarium Quiz

34 contestants from 17 elementary schools

Prize	Winners	Age	Gr	School
1st	Ros Anne Bastareche	11	6	Colegio del
	Coach: Janet Toriano			
2nd	Leobert Julian de la Pena	12	6	Kinaadman ES
	Coach: Ma. Cecilia Cordova			
2nd	Angeli Janne Bimbo	11	6	Central Phil.
	Coach: Leizl Castroverde			
				Univ. ES

Digital Photoessay: "Fisheries and aquaculture for food and livelihood"

8 contestant teams from 12 high schools (HS)

Prize	Winners	Age	Yr	School
1st	Andre Karl Faculin	15	4	Colegio del
	Shawn Marri Gallego	16	4	Sagrado
	Coach: Wilfredo Torrecampo			
				Corazon de Jesus HS
2nd	Daryl Marmolejo	15	4	Guimbal
	Beverly Joy Valencia	15	4	National HS
	Coach: Bonifacio Garvilles			
3rd	Salve Lia Santocildes	14	3	St. Louise de
	Rafne Jane Navales	15	4	Marillac School
	Coach: Geraldine Rodrigo			
				of Miagao

Species for the School Museum: "Documenting our natural heritage"

8 contestant teams from 12 high schools

Prize	Winners	Age	Yr	School
1st	Lorene Joy Quezon	13	2	Colegio del
	Nemelynn Deloverjes	13	2	Sagrado Corazon
	Coach: Ofelia Lingaya			
				de Jesus HS
2nd	Ma. Victoria Nortiga	13	2	St. Louise de
	Arien Flordeliza	13	2	Marillac School
	Coach: Fia Nadaanza			
				of Miagao
3rd	Ruby Rosa Baldevarona		4	University of
	Christian Catalan		3	the Philippines
	Coach: Leopoldo Ayukil III			
				HS

Seafood Dish Contest: "Fish from aquafarms: masarap na, healthy pa"

13 contestants from 7 high schools

Prize	Winners	Age	Yr	School
1st	Marielle Anne Piorque	15	4	St. Louise de
	Coach: Evelyn Nufable			
				Marillac School of Miagao
2nd	Alexis Kerr Alvior	16	4	University of
	Coaches: Grace Bernal			
	Nick Alfred Umadhay			
				Iloilo, HS
3rd	Mariel Santander	15	3	Ramon
	Coach: Ma. Fe Montealto			
				Avanceña National HS

Best Performing Elementary School

Central Philippine University ES

Principal: Prof. Ananias Sabijon Jr.

Best Performing High School

St. Louise de Marillac School of Iloilo

Principal: Miss Felicidad Erasmo

Aquaculture Week at AQD

FishWorld played host during AQD's Aquaculture Week celebration held last July 28-August 1.

The week was jam-packed with activities, including:

bring, show and tell; nutrition and aquaculture quiz;

IT TENDENCIA, RP GUARIN, R HOSILLOS, TU BAGARINAO

- write, draw, and tell a fish story and aquarium quiz for elementary students.
- Workshops on marine diversity and fisheries and

- aquaculture kept high school participants busy. Contests on digital photoessay, species for the school museum, and the seafood dish were also held.

A total of 49 elementary and secondary schools were invited to participate in this annual event.

The winners were announced August 1, with best performing school awards going to Central Philippine University Elementary School and St. Louise de Marillac School of Iloilo. Turn to page 7 to see the list of winners.

