

# SEAFDEC AQD Matters

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

## Season's greetings from the AQD Chief

I am one with you in saying that SEAFDEC / AQD shares a joyous and spirit-filled love this Christmas!

But what is it exactly that we have shared, and to whom? Allow me to enumerate—

For our families, we have shared our hard-earned money that they may go to school, eat three times a day, have a roof over their heads, have decent clothes, and even entertain themselves.

For the neighboring barangays of AQD, we have shared a few gifts that they may know we think of them and of their welfare. We gave to the detainees of the Iloilo Rehabilitation Center through the lanterns that they made for us; there was a rummage sale, with the proceeds going to children's and indigents' gifts in Nanga, Buyu-an, and Parara; and even before that, there were the tutorials of schoolchildren in Parara Elementary School.

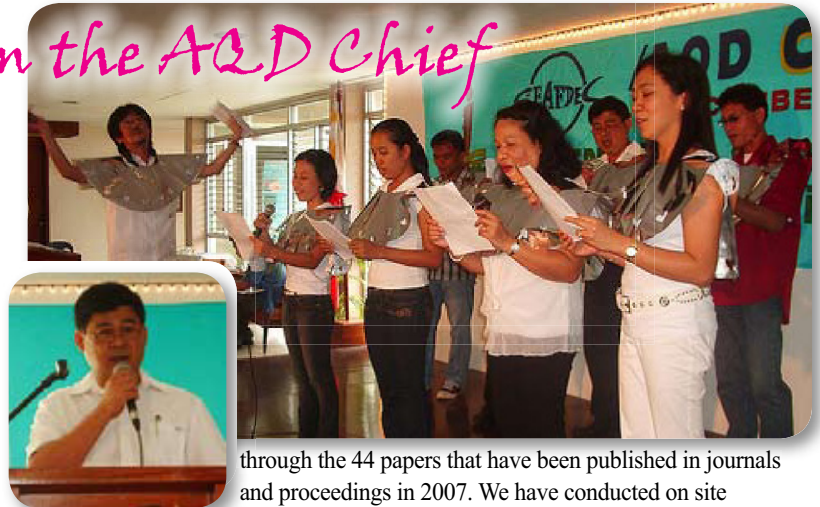
For our colleagues, we have shared friendships, ideas, and the spirit of cooperation in day-to-day office and field activities. We have even shared the literal fruits of our labor ~ the harvests from DBS, IMS, BFS ~ and our stations were able to produce not less than 2,600 kg of fish, shrimps and crabs which were sold to employees at less-than-market prices. We have done our jobs skillfully and with passion so that our colleagues can do theirs equally well. Collectively, we have enabled AQD to fulfill its workplan for 2007 on research, technology verification & demonstration, and training & information.

What have we done then outside of ourselves, our families, our immediate neighbors, and AQD?

For the local governments and local people through their cooperatives, we have shared our technologies in seabass, mudcrab, grouper and milkfish, starting with Aklan, Capiz, Guimaras, and Northern Samar. We are now up north in Cagayan and down south in Tawi-tawi. We have stocked local waters with abalone and giant clam for re-introduction and rehabilitation purposes.

For the private sector in our host country, the Philippines, we are sharing and offering eight hatchery-nursery technologies and another eight grow-out packages under a build-operate-transfer scheme. We are now personally extending our knowledge in Tarlac, Cebu, and other places. And not just the how-tos of culture... we have given farm inputs as well, such as the AQD-formulated feeds, and seedstock from our hatcheries which produced this year not less than 59 million fry of milkfish, groupers, seabass, and siganids. We helped the private sector operate healthy farms too by diagnosing not less than 330 cases of suspected disease problems.

For Southeast Asia and the international scientific community, we have shared knowledge and expertise. We continue the search for new techniques, we have 78 studies this year; and for completed studies, we have made the results accessible



through the 44 papers that have been published in journals and proceedings in 2007. We have conducted on site training on fish and shrimp health management in Myanmar

and Vietnam. We have also trained and accepted as interns 393 nationals from SEAFDEC member-countries, and even from far away as France, the United Kingdom, Netherlands, Africa, and the USA. We continue sharing farmer-friendly information materials, publishing at least 10 new manuals, flyers, and reports that are mostly downloadable from our website from anywhere in the world. What I have enumerated quite proves that each and every one of you shared your joy in both life and work, and you do have the spirit of love, cooperation, and concern within your hearts and minds. Indeed, we can proudly say that all the employees of AQD ~ 78 regular, 137 fixed-termers, and 55 casual workers ~ shared a joyous and spirit-filled love for their families, the aquaculture industry and humanity in general.

As a member of the SEAFDEC AQD family, each one of you should be proud for what you have shared to these achievements. Because of these achievements, AQD was highly commended during the recent ASEAN-SEAFDEC-FCG meeting at Iloilo City for being continuously at the forefront of sustainable development of aquaculture in the region. While other member organizations funded by International Commitment Fund of the Department of Foreign Affairs will have a decreased budget next year. AQD managed to get an increase of about 6%. Because of these achievements, your achievements, the SEAFDEC Council Director for the Philippines, Director Malcolm Sarmiento, endorsed my second term as AQD Chief effective 08 April 2008.

In recognition of your contribution to these achievements, the management is pleased to announce that all casual and agency-hired personnel of AQD will again receive a Christmas gift worth P1,000 each. Regular and fixed term staff will receive an additional P5,000 medical allowance in addition to the P10,000 they received earlier. I regret that AQD could not financially afford to fully grant the P10,000 pay as directed by PGMA.

I thank you all for all the support. May you and your family find much joy in the coming holidays.

May God continue to bless us always. Merry Christmas and a Happy New Year!

**Dr. Joebert D. Toledo**  
AQD Chief

# Christmas 2007 greetings



Another calendar year is ending, and I am very glad to have all here in this Christmas season. I wish you all have a happy holiday season. I would also like to convey my best wishes to your families and your fish.

At this time of year, we think about how the past 12 months have gone. Personally, it has been the busiest year that I never encountered in my life. However, I could say, "It has been a good year", because I have worked together with the skilled professionals and veteran employees of AQD.

In addition, I wish to express my sincere appreciation to all of you. Without your warmth and open arms in welcoming us, our family wouldn't be here this Christmas season.

In closing, I hope that all of you did have a good year, and the next one will be even better. I look forward to working with you in the upcoming year.

Thank you and Merry Xmas.

**Dr. Hiroshi Ogata**  
*Deputy Chief*



The Research Division and staff wish everyone a Merry Christmas and a Prosperous New Year!

**Dr. Evelyn Grace deJesus-Ayson**  
*Head, Research Division*



As we see 2007 come to an end, we all thank our Lord for another good year. Our gratitude goes to our SEAFDEC family, our kapuso and kapamilya who have seen us through the good and the bad, the highs and the lows. We await 2008 with great expectations and concrete resolutions to be better.

While we celebrate this great feast, we think of the others and what we can do for them. As employees of SEAFDEC, let us strive hard to perform excellent work so that our collective effort can translate into employment and food security for our fellow men.

May the true spirit of Christmas pour forth and fill us with joy, peace, compassion, and thanksgiving, as we gather to celebrate the birth of our Lord Jesus Christ.

To one and all, Merry Christmas and a Prosperous New Year!

**Atty. Jerry Opinion**  
*Head, Administration and Finance Division*



We at the Training and Information Division extend to everyone in SEAFDEC AQD and the community

our best wishes for a joyful and peaceful celebration of Christmas and New Year. May we all nurture in our hearts the essence of God's message in sending His Son Jesus to us – love, forgiveness and reconciliation, and peace and goodwill – and may we all make them the guideposts in our life.

*Malipayon nga Paskua kag Mahamungayon nga Bag-ong Tuig!*

**Mr. Renato Agbayani**  
*Head, Training and Information Division*

May the holidays give us the time to take stock and be thankful for the blessings we have received for the year, and give us the respite we need so that we may take on the challenges of the new year with renewed vigor and enthusiasm.

Here's to a prosperous, productive and harvest-filled 2008!

**Dr. Clarissa Marte**  
*Head, Technology Verification and Demonstration Division*



# All they want for Christmas is....

No one asked for a pony from Santa this Christmas. Nevertheless, when we asked AQD's staff on what they would want for Christmas, they wished to their

hearts' content. Depending on whether they were naughty or nice, they just might get their holiday wishes. Or not.

**Ms. Amy Arisola**  
Library

*Wishing that all mankind will take seriously the issues on global warming for our sustainable development. Merry Christmas and a happy New Year to all!*



**Charlemagne Recente**  
Fishworld

*Good health for my family and to win millions in the lottery for me to renovate my house in Bukidnon and buy a car like Ferrari or Ducati 1000cc*



**Jay Talimay**  
Library



*My wishes are: (1) new cellular phone and ipod; (2) sana macontinue or marenew ung contract ko ;-)*

**Sid Tendencia**  
Devcom

*Long life and happy family*



**Caryl Genzola**  
Training

*My wish this Christmas is for my family and grandparents to get together and enjoy the holidays with friends and relatives. I also wish for everyone's good health, peace and contentment for a meaningful Christmas*



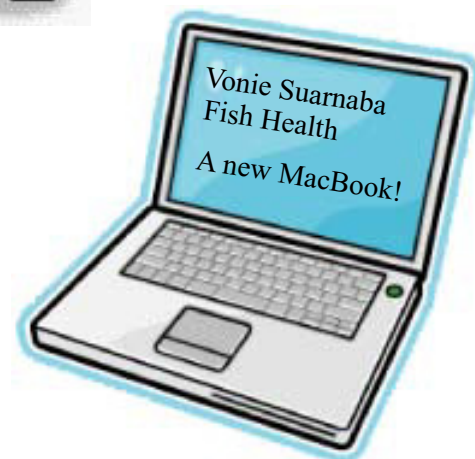
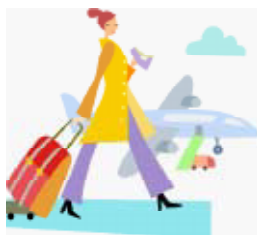
**Paz H. Garibay**  
TID

*May God's love continue to reign in everyone's hearts and homes... Merry Christmas!*



**Nia Santos**  
Biotech

*...to safely fly home to my family this Christmas.*



**Schedar Novilla**  
TVDD

*Peace and joy this coming  
Christmas and New  
Year and a complete  
set of Harry Potter  
novel series +  
vacation abroad*



**Francis Legario**  
Nutrition & Feed Dev't

*A scholarship abroad!*



**Felma Batatin**  
RD-Abalone

*Good health and more blessings to come  
this coming year. I wish for the Bible  
Study group to prosper with more  
members to take part, listen  
and learn about God's words.  
Merry Christmas and a  
Happy New Year to all!*



**Mercy Maceren**  
Crustacean Hatchery

*Makauwi this Christmas to spend  
the holidays with my family and a  
laptop*

**Zenith Orosco**  
Nutrition & Feed Dev't

*Entertainment showcase  
and trip to Paris!*



**Irene T. Escanlar, MD.**  
Physician

*More healthy and happy  
Filipinos on the year 2008!*



**Elvi Nemiz**  
Library

*May good cheer  
and joy surround  
us on Christmas  
and throughout  
the coming years!*



**Ms. Dorfra P. Tupas**  
Nurse

*More blessings, good  
health with unity, peace and  
happiness to everyone not only  
this Christmas but throughout  
the years to come.*



**Ms. Louie Pacino**  
Library

*At the close of another year, we gratefully pause to wish you a warm and happy Holiday season and a peaceful and prosperous New Year.*

*Wishing you all a joyous Holiday Season and a New Year of peace and happiness.*



**Imelda Ygan**  
Fish Health

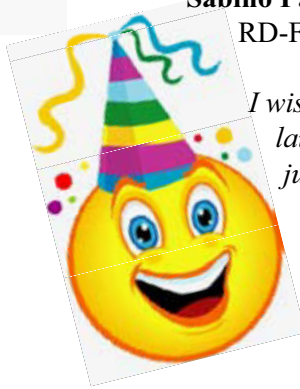
*To finish my MS thesis on time*



**Sabino Padayhag**  
RD-Finfish/Biolab

*I wish this Christmas not just smiles but laughs; not just joy but happiness; not just riches but wealth; not just peace but serenity.*

*Merry Christmas and a Happy New Year to all!*



**Dr. Perla Eusebio**  
Nutrition & Feed Dev't

*Good health and more blessings to come!*

**Irene Cabanilla**  
RD-Finfish/Biolab

*A family trip to Disneyland!*



**Gwen Anuevo**  
CAL-Biotech

*Trip to Europe!*



**Jonathan Baybado**  
Security Guard

*I wish for continuous peace and order here at AQD and salary increase!*



**Kimberly Dianne Caumban**  
Office of the Chief

*I wish to be transported to Alagaesia and ride Saphira*

### **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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Editorial consultants: MT Castañeros, RF Agbayani

Thanks to our colleagues who provided facts, images and feedback! Happy holidays!

# The USS Albatross arrives in the Philippines: Paul Bartsch's eyewitness account

By Teodora Bagarinao

**D**r. Paul Bartsch, after whom many mollusks, birds, and other animals have been named bartschi was a naturalist, professor, Smithsonian curator and scientist, chronicler of the Albatross Philippine expedition, and it turns out, also ethnographer of the Philippines circa 1907-1908. I have been allowed to transcribe his journals, all 473 handwritten pages, and I am excited and grateful for the wealth of information I am discovering. I am also happy with the education Dr. Bartsch got during his visit; few others can claim scientific work as hard and foreign-country experience as rich. Decades later he was still telling his students stories of the Philippines, and still writing books about his findings. Below is Dr. Bartsch's account of his first fortnight in and around Manila.

## 26 Nov 1907, Tuesday

Samar was in sight when I awoke and looked out of the port window this morning, and Luzon made its appearance about 11:30. Both islands show ranges after ranges of hills and mountains. At the mouth of San Bernardino Channel between Samar and Luzon is a small island ... with a pretty little light house... Just behind this the crater of Mt Bulusan 5,100 ft high showed up in a mass of clouds. About 1 pm we saw what we believe to be... an Orca or Killer Whale. Saw quite a school of Porpoises. Fishes seem very abundant here as we have seen numerous schools swimming near the surface.

## 27 Nov, Wednesday

All day long we have been passing islands... with many possibilities for the naturalist but hard to traverse. When I came on deck this morning we were just leaving Marinduque on our starboard side. Before night we hope to reach Manila Bay and first thing in the morning after

the health officer has inspected our boat we will land. I see no end of work ahead of me. Feel that I could spend a life time here and keep busy every minute. I like these Islands -- like Honolulu we have the omnipresent play of clouds about the peaks of its hills and hanging over the valleys like huge veils, now shutting out the scene, now exposing it like a drop curtain in some huge theater. Dropped anchor at 7:50 pm in Cavite Bay.

## 28 Nov, Thursday, Thanksgiving Day

The Health Officer paid us the customary visit and later Capt Johnson called on the Commanding Naval Officer. After which we sailed inside of the break waters at Manila and came to anchor about 11 am. Manila Bay is a very pleasant sheet of water with the low land in the foreground of the shore, the hills and mountains in the distance. Numerous native crafts of diverse kind and pattern plied about us, most of the small ones being dugout canoes with bamboo outriggers, all having a partly covered portion probably to shelter the man or men from showers.

After luncheon Mr Fassett and I went ashore to look up Dr. Smith. Our inquiry at the various hotels revealed the fact that he had not yet arrived. We hired a caromata, i.e. a two-wheeled cart with a small pony and drove around the walled city and town. The Old or Walled City lies between the Bay and the Pasig River and is surrounded by a high stony wall which is pierced in... places by gates. These in the past were guarded by draw bridges, the entire city being surrounded by a deep moat now filled up. Inside of the walls are plazas and in some places a second line of fortification. Then comes the city proper with its narrow streets. Old churches and quaint houses, unattractive from the outside but ... a fine court in the center lends the whole a most

charming aspect and renders it much more ideal than one could ever imagine from the exterior. Almost all the windows in the town... are glassed with Placuna shells which allow a very mellow but pleasing light to fall through them.

The evening was spent partly in the Captain's room where we were invited to Thanksgiving dinner.

## 29 Nov, Friday

Went ashore on the 9 am boat and ferried across the Pasig in one of the native canoes... We next visited the Bureau of Science, found that Worcester does not hold forth here but is in the Walled City in the Administration Building. Seale is away but we found Mr McGregor and talked shells and birds with him. Took lunch downtown, passed through several showers and continued ... exploring the town. Paid a visit to Columbia Club, a splendid institution with fine gymnasium and reading rooms... light refreshments ... but no alcoholic beverages.

We next paid a visit to the Quadras home and found that Sr Quadras Sr died last Monday. I am sorry for this because I should like to have obtained a lot of data regarding localities from him. Madame Quadras, the wife of the young Quadras who is in the US, told me that all of Quadras collection and library had been taken to the US.

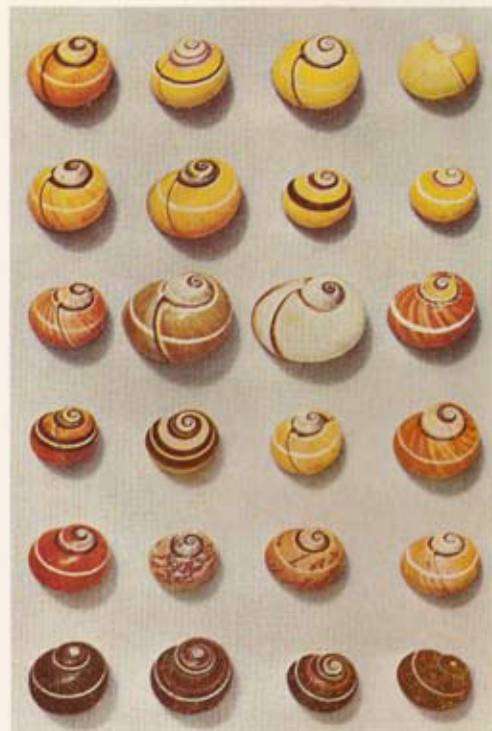
We next attended the concert by the constabulary band on the Luneta. Here we heard a lot of good music. The band seems to be made up almost altogether of natives. Though the leader is an American Negro (a Mulato), tonight he was absent and the bandmaster too was a native. After the concert we went to the Metropole Hotel for dinner. After dinner we returned to the Columbia Club where we met a number of the Bureau of Science men. I returned to the boat on the 11:30 launch.

PLATE D



Shells of Philippine tree snails (*Cochlostyla*), showing variations in color pattern, size, and shape which occur in different species of this genus

PLATE E



Shells of Cuban land snails (*Polynia*), showing the varied color patterns which occur in different species of this genus

### 30 Nov, Saturday

At 3:30 I met Mr Topping at the bridge of Spain and we took a street car and rode to its limit. We visited the water works and then walked over to San Felipe Mission, an old stony walled structure with a large roomy hall minus any seats. I am told the priest ... do all they canto see the gospel properly spread. The best looking natives that I have seen so far were in the little settlement about the Mission and the regular features are probably also acquired from the same source from which they obtain their religious tendencies. We walked along a very picturesque road toward Sta Anna Mission, another complex of structures not unlike the last but a little more pretentious.

At one place in the road we saw a bunch of girls and women play at a game of beans. They used a small pit in the ground for their goal and standing off about ten feet would try to flip the beans into it. Part of the game also

consisted in taking the bean in the mouth and shooting it with the lip.

In many places we saw girls and native women fishing for frogs in the rice fields, using a short pole with a moderate lengths of line to the end of which a piece of what appeared to be meat was tied. They keep bobbing the line in and out among the rice, jerking it much in the same fashion that Potomac fisherman jerks his hand line.

Along the small streams which we passed and also along the shallow reaches of the river, the Caribous which had completed their day's labor were enjoying their mud dip, submerged completely excepting their nose in the water if this was deep enough or else wallowing in the mud like a log, apparently enjoying the experience greatly.

### 1 Dec, Sunday

The launch took us ashore at 6:30 by special dispensation and we reached the RR Station

in time to take the train to Montalban. Our train followed the Rio Pasig for some time, then changed over to the valley of Rio San Mateo, the winding course of which came into view at many places. At each station, a bunch of natives and white men hailed the train. Many of the natives carried their pet cock for Sunday is the day for cockfighting. It seemed somewhat strange to see these birds quietly reposing in their master's hand seeming perfectly content and happy, sending challenges to rival cocks. We passed through a rather large village ... most of the houses ... were raised above ground, the lower story lacking side walls, furnishing shelter for pigs, children, chickens, dogs and the other domestic beasts. Some of the more pretentious structures furnished stores in their lower quarters and the home on the second floor. Many native villages we passed had houses all constructed of bamboo and palm thatch.

We reached the station at Montalban about 8:00 and

proceeded at once toward Marikina Valley and soon reached the river by that name. Passing the village which extends for fully 1 1/2 miles, we struck the first signs of the conduit which is to bring water to the city. This conduit consists of 3/4 inch thick steel tubes of about 3 ft caliber and these are placed about five feet underground.

In many of the shallow pools and partly inundated rice fields, native children were fishing. They used a basket of truncated cone shape, about a foot in diameter at the large end and about five inches at the lesser. Both ends are open, the larger is placed over a muddy spot, the hand and arm inserted in the smaller, and the contents searched. A very laborious process which apparently yield scant results.

About 10:30 we stopped to look for mollusks. Work up to noon gave us about fifty specimens. All were found in the vegetation. We took our lunch here then started northward toward the dam.

Many times while walking along the mountain road we heard the curious booming call of a bird, probably a Pigeon up in the trees on the cliffs. Birds were quite plentiful, also butterflies, some of which were marvelously beautiful. At one place we found a scorpion with a long whip like leash at the posterior extremity. I poked him up and teased him with a flower ... in return for which he emitted a very pungent odor which was as nauseating as a skunk and lasted for many an hour. In future I shall refrain from this pastime.

We reached the gap at 1:15. Here the Marikina has cut its way through a mountain range, making a very narrow cut not more than 150 feet wide. This is bounded by steep bluffs on both sides rising almost vertically to a height of 400-500 feet, the whole covered by luxurious vegetation. It was here that von Mollendorf and Quadras made their first collection of Philippine Island minute mollusks and here practically the foundation was laid for the splendid work done by Mollendorf on the Philippine fauna later. We made a fine collection of *Melania*, *Vivipara*, *Corbicula* and *Neritina* in the stream at the base of the gap. Then climbed up on the right bank and collected land shells amongst the bushes and crags. It was real exciting and our work yielded good results. Saw many ferns and interesting plants but did not collect any, confined all attention to the mollusks.

### 2 Dec, Monday

Worked until 2:30 pm on the collection made yesterday. Mr Ratcliffe caught a beautiful sea serpent this morning having many black bands and pale yellow ones between them. We are unable to locate the species in Dr. Stejneger's Japanese Herpetology. At 3 pm, I left for shore to meet Mr Topping. We called on Mrs Dr Pond

at the hospital in the western part of the city. Took tea and dinner with her and enjoyed a long drive through the city on our way to the meeting of the Medical Society of Manila. Here I listened to a long discussion on infectious jaundice and a new malaria-bearing mosquito. The latter was quite interesting, Dr Banks having worked out the complete life cycle of the beast.

### 3 Dec, Tuesday

Cleaned up my room ... and continued the work on Sunday's catch. Dr. Smith arrived at 11:00 am ... from Japan. In the afternoon I called at the Bureau of Science where I met Mr Schweitzer, the entomologist who has been conducting an exceedingly interesting set of experiments on the influence of temperature upon a large moth, cocoons of which he subjected to freezing etc. The results are striking—great variations in size, but more so in color and even in color pattern. Mr Seale next took me to the botanists Mr Foxworthy and Mr Copeland, the latter a fern expert. Had a most pleasant hour with them and planned a Christmas trip. After dinner, Dr. Smith, Fassett and I had a game of checkers and later Mr Chamberlain gave us some gramophone selections.

### 4 Dec, Wednesday

I dropped a hoop net overboard this morning, baiting it with a chunk of suet hoping to catch some mollusks. The net however sank so deeply in the mud that I had considerable difficulty to recover it. Worked on the collections all forenoon. After lunch Mr Wells and I took the small skiff and rowed to the shore off Luneta Park. Here we found native fishermen throwing their cast nets, circular nets with about inch mesh, the periphery well leaded, and a long cord extending from the center which is fastened to the wrist of the fisherman. The

fisherman ... casts this net and makes it spread at some distance from shore in a perfect circle. The leads make the periphery sink rapidly and the fish are thus enclosed in a pouch. The fish, which are always small, less than a half foot long, are folded within the net as it is withdrawn from the water. (I took two photos of the operation.) Got a water snake from a cast net man.

The entire sea wall is plastered with Oysters and (Patelles?). The land inside of the sea wall is made land from mud pumped from the Bay. The material seems to be sifted, ... the large shell heaps ... used for paving streets ... indicate as much. I am sorry that no pumping is being done at present as I should like to look over the sifted material and secure a series of shells from this source.

Just as we were leaving, a native came with half a dozen crab nets. These are square nets of about two inch mesh with cross sticks extending diagonally from corner to corner. The nets are baited and sunk, the crabs holding to the meat as the net is drawn from the water. We secured two specimens. They look something like *Callinectes* but more rounded and smaller than our East Coast species.

We had more gramophone music tonight and Dr Smith gave me Worcester's book on the Philippines which I read until 12. The Japanese artist Kumataro Ito came aboard today.

### 5 Dec Thursday

We got out a long (180 ft) gill net and tried to catch some of the small fish about the boat, but they all went through. Dr Smith caught four with a long-handled dip net by making rapid dashes at them as I rowed him about and I added another in the same manner. Later Mr Ratcliffe and Mr

Wells caught three more. Mr Seale came aboard at 6 pm and visited until 10. After this Dr Smith and I tried the dip net and electric light from the gang plank. He held the light and I caught a small fish, *Lagocephalus*, and another sea serpent similar to the one caught by Ratcliffe Monday. Barthallow caught another sea serpent this morning, a much darker species than the other two. The artist has been working on a color drawing of it all day.

### 6 Dec, Friday

Spent part of the forenoon working about the laboratory and reading the letters from home, the first since we left San Francisco. Spent about two hours throwing my little dredge overboard from the landing platform and washing the mud this brought up. Caught a fine series of small mollusks which I added to the catch made the other day. At 3 pm, Dr Smith, Ratcliffe, Wells, Hanson, and myself took a seine over to shore off Luneta and made five hauls. Caught about 20 species of fish and a number of nice crabs. I picked up a nice series of shells along shore. Took care of the specimens after dinner, then tried my hand with dip net and electric light on the gangway. Caught four sea serpents. Saw many squids and small fish but could not get them. The squids are swift as lightning and seem to be able to move forward and backward equally well. They are much better swimmers than fish.

### 7 Dec, Saturday

Worked on the mollusks caught yesterday and read book of Worcester. At night fished off the gangplank with a dip net and incandescent light, caught more sea serpents, #4473-84. These were exceedingly abundant and usually appeared in pairs. Also added a number of squids and small fish.



## 8 Dec, Sunday

Took care of the specimens caught last night and photographed a bunch of sea serpents, placing them in a drawer lined with white blotting paper. Our negative was made in the sun, the other in the shade. Next I took two with the snakes on a sheet of glass. These proved to be the best made, the snakes were unable to move on the polished surface, simply squirmed about a bit and could be placed to suit our purpose.

In the afternoon Mr Chamberlain, Ratcliffe and I went to town, visited the cockpit beyond Tondo. This is a rather large bamboo house with extensive open anterooms. The street anteroom and house proper were filling with a jabbering and gesticulating multitude. Along the walls of the anteroom and the walk just outside of it, women were selling all kinds of eat- and drink-ables. Conspicuous among the former were boiled hatched eggs with the chicks well feathered. These seemed to be considered a great delicacy. Not even a drop of the uncongealed fluid surrounding the chick was allowed to escape. The egg being gently cracked at one end and a piece of shell removed is pressed to the lips and the precious fluid is daintily sipped, after which the opening is gradually increased and the contents of the shell gradually emptied. Large shrimp and fish pastes and cakes of all sorts as well as trinkets were sold here. Among the throng of humanity were many mendicants with all kinds of deformities and ills pleading for a consideration.

In the anteroom, hundreds of men were squatting with their favorite game cock. The birds were of all kinds of breeds, the green fine form exceeding all others. The bird were tied to a leash by the left leg and to a peg into the ground. The owner sits or rather squats beside the fowl, stroking his pet or holding him in one hand and caressing him

with the other. All natives are exceedingly fond of their birds and it has been said will rescue their game birds first in case of fire and then render assistance to their family. The game pit proper consists of a large room with a balcony that extends its entire length, the main part being reserved for Americanos. When we entered a fight was just finished and a dead bird was being dragged away and a little sand swept over the arena, a hard clay floor. Two men met and next came forth, and betting at once began. The judge fastened the gaffs which are about 3 inches long, narrow, shaped like a scythe and keen as a razor, to the left leg spur of each bird. Then the two owners holding the birds made passes toward each other and allowed them to take a peck at the comb and beard, drawing a little blood. Then the angry fowls were placed on the ground. After a few parries, they set to work and in less than three minutes, one or the other would succeed to give his opponent a smooth kick with the knife. Great shouting and picking up of the coins placed on the floor by the winner ends the fight. A new lot was brought in and the game continues. We did not remain long. The whole thing is disquieting to the highest degree and even now I am mad about it.

In order to get rid of the bitter taste (mentally), we decided to visit churches next and proceeded to the Walled City where we paid a visit first to the Cathedral, a massive structure of pleasing exterior form but poor internal architecture, a cold bleak building with many actors and saintly images. There are however several excellent paintings, which I feel sure must be the product of some of the masters, representing Madonna in one of the alcoves. Sto Tomas was our next point and the museum the immediate object of our visit, but unfortunately the good father in charge was enjoying his afternoon siesta so we

had to postpone the call. Sto Tomas Church was open and we entered. Here we could hear the chant of the monks, saying a litany on a balcony high up, away from public view. Poor devils. I felt sorry for them spending a life chanting litanies and beseeching a deity on bended knees all hours of the day, hoping for an eternal reward. Next we visited the monastery but saw little here. Then we went to the Normal School where we inspected the building and pictures of classes hung on the walls, but saw no one. We passed through the botanical garden which is also a zoological garden. Here we found a couple of Bears, Tigers, and Leopards, also some Monkeys, one of which was an albino, and quite a lot of diverse kind of birds, among which were Pheasants and Pigeons.

We returned to the Albatross in time for supper. After supper I continued fishing with dip net and incandescent light. Saw lots of snakes and caught # 4484-4500. Also some mollusks.

## 9 Dec, Monday

Spent the morning taking care of the specimens caught last night. In the afternoon Dr Smith, Ratcliffe, Wells, and I went to Ermita Beach and drew a long seine several times. We caught a goodly number of fish and crabs. I collected a lot of shells along the beach. We had quite a crowd of spectators all of whom were eager to help. On our return to the boat, we found that someone had caught a dark brown medusa about 2 1/2 inches across the umbrella and with it about half a dozen small Caranx fishes. These usually accompany the Spanish man-of-war Physalia. At night I fished on the gangway again, saw many sea serpents but did not catch any. Counted 9 in about half an hour. They would come up probably to breathe, swim about for a little while, then wiggle down again out of sight. Only one long dark colored fellow was caught, at least three

feet long. I placed it in a pail, covered it up, but found next morning that it had escaped.

## 10 Dec, Tuesday

Took the launch and had it tow the frahm and dinghy to Malate Beach. Dr Smith, Chamberlain, Ratcliffe, Wells, and I seined and caught a lot of fish. I got two nice specimens of an Octopus from a fisherman and later we caught two more of another species in the net. I also made a collection of shells along the beach and added many by wading. Caught a small Octopus in a dead shell and had him take a bite of my finger. They are nasty things to handle. Found many natives wading up to their waist catching Strombus which they use for food. Brown medusae were very abundant and we caught a lot of them, each having a small number of fish swimming under its expanded mantle and frills.

Dr Jorgen came aboard, he had arrived from Culion yesterday afternoon. We called at his office and he found that he was booked to return on the next boat to the Leper Colony to superintend some construction. This means that he will leave Manila about the 20th of this month. I joined him on his drive about town attending to official business. We saw the Lilliputian opera troop, all small children ranging from 5-16 years. Jorgen secured tickets for "The Toy Maker" for tonight. We paid the University Club a visit and I had a card of admission extended to me. From here we could see the soldier cavalry drill on the encampment ground. Also saw a three round boxing match. At dusk we returned to Hotel Delmenico, took dinner there, then went to the theater. It was exceedingly surprising to see how well the tiny tots assumed the parts of the elder persons whom they represented. The little girl that assumed the part of the Chief doll was simply glorious and her rendition of the fishing song could not be exceeded.

# Administrative and executive orders for 2007

## Administrative Orders Series of 2007-JDT

Number	Date	Subject
1	1/3/2007	Appointment of Head of Offices
2	1/4/2007	Designation of Engr. ZALDY T. SURIAGA as Acting Head, MESU
3	1/9/2007	Additional Allowance for Fixed-term Employees
4	1/31/2007	Shuttle Service
5	2/2/2007	Designation of Mr. RENATO F. AGBAYANI as Officer-in-Charge, Office of the Chief
6	2/19/2007	Creation of an AdHoc Committee for SEAFDEC AQD Uniform
7	2/20/2007	Reclassification of Urbanized Areas for Domestic Travel and Claims for Daily Subsistence Allowance
8	2/28/2007	Validation of Transactions Involving Purchase, Repair and Retirement of Computer Equipment
9	3/2/2007	Rental Rates of Department Housing Facilities
10	3/19/2007	Appointment of Research Division Section Heads
11	3/21/2007	Release of 2007 Uniform Allowance
12	3/21/2007	Wearing of SEAFDEC/AQD Uniforms
14	3/28/2007	Release of 50% of the 13th Month Pay
15	3/29/2007	Department Holidays
16	3/30/2007	SEAFDEC AQD Strategic Planning Workshop
17	3/30/2007	Creation of an Ad Hoc Committee to Organize the First National Abalone Congress
18	3/30/2007	Approval of Vacation Leave Application
19	4/16/2007	Supervision of the Feed Mill Operations under the Feed and Development Section
20	5/22/2007	Creation of SEAFDEC AQD Retirement Plan Committee
21	6/1/2007	Creation of the Committee for the 2007 AQD Anniversary Celebration
22	6/14/2007	Abolition of the General Services Section, Administration and Finance Division
23	6/14/2007	Creation of Housing, Buildings and Grounds Maintenance Unit
24	6/14/2007	Additional Duties and Responsibilities of Engr. Salvador Rex A. Tillo
25	6/14/2007	Staff Movement of Administration and Finance Division
26	6/14/2007	Appointment of Ms. AGNES C. LACUESTA as Head, Materials Control Unit
27	6/14/2007	Appointment of Ms. Lucena P. Mallo as Head, Housing, Buildings and Grounds Maintenance Unit (HBGMU)
28	6/20/2007	Abolition of the Information Services Section and Creation of the Development Communications and Library and Data Banking Services Sections, Training and Information Division
29	6/30/2007	Appointment of Mr. RENATO F. AGBAYANI as Head, Training and Information Division
30	6/30/2007	Appointment of Dr. EVELYN GRACE T. DEJESUSAYSON as Head, Research Division
31	6/30/2007	Designation of DR. NEILA S. CHAVOSO as Head, Technology Verification and Commercialization Division
32	7/2/2007	Full Release of 13th Month Pay

<b>Number</b>	<b>Date</b>	<b>Subject</b>
33	6/30/2007	Designation of Program Leaders
34	6/30/2007	Designation of Ms. BELEN O. ACOSTA as Special Departmental Coordinator for AQD
35	6/30/2007	Designation of Heads of Offices
36	7/2/2007	Designation of Engr. ZALDY T. SURIAGA as Acting Head, MESU
37	7/2/2007	Appointment of Heads of Office
38	7/16/2007	Designation of Mr. HANANI T. TORILLA as Head, Dumangas Brackishwater Station
39	7/17/2007	Appointment of Dr. CLARISSA L. MARTS as Head, Technology Verification and Commercialization Division
40	7/31/2007	Designation of Engr. EMILIANO V. ARALAR as Head, Binangonan Freshwater Station
41	8/13/2007	Creation of an Ad Hoc Committee for the 30th SEAFDEC Program Committee Meeting and 20th Fisheries Consultative Group Meeting (26-30 November 2007)
42	8/15/2007	Designation of Dr. EMILIA T. QUNITIO and Dr. MA. JUNEMIE HAZEL LEBATA-RAMOS as Co-Project Leaders of the GOJ Trust Fund Project
43	8/15/2007	Designation of Dr. GILDA L. PO as Co-Chairman for the International Workshop on Fish Disease
44	8/23/2007	Creation of an Ad Hoc Committee on Staff Development for SEAFDEC/AQD
45	8/23/2007	Designation of Mr. LEONARDO V. PINEDA as Acting Head, Materials Control Unit
46	9/3/2007	Amendments to AO No. 7, s. 2007-JDT under Items B and C (Reclassification of Urbanized Areas for Domestic Travel and Claims for Daily Subsistence Allowance
47	9/3/2007	Full Release of Employee Health Care
48	9/10/2007	2007 In-House R&D Program Progress and Planning Meeting
49	9/11/2007	Creation of an Ad Hoc Committee on the Performance Evaluation and Merits and Promotion Systems for SEAFDEC/AQD
50	9/27/2007	Creation of MEWASU in Engineering Section, AFD
51	9/27/07	Appointment of Engr. ZALDY T. SURIAGA as Head, MEWASU
52	10/8/2007	Revised Rules on Overtime Pay
53	10/11/2007	ABOT Aquanegosyo Technical Assistance Fee
54	10/19/2007	Designation of Dr. EVELYN GRACE DE JESUSAYSON as Officer-in-Charge, Office of the Chief
55	10/25/2007	Revised Daily Wage Schedule for Manila Office and Binangonan Freshwater Station Daily Employees
56	11/5/2007	Creation of an Ad Hoc Committee on Intellectual Property Rights for SEAFDEC AQD
57	11/14/2007	Granting of Cash Gift
58	12/3/2007	Granting of Year-end Bonus
59	12/3/2007	Designation of Dr. CLARISSA L. MARTE as Officer-in-Charge, Office of the Chief

Executive Orders Series of 2007-JDT

<b>Number</b>	<b>Date</b>	<b>Subject</b>
1	3/16/2007	Revised Honorarium Rates for Some Positions
2	3/29/2007	SARP Membership of the Chief
3	8/9/2007	Guidelines in the Implementation of the 2007 Position Classification and Pay Scale

# SEAFDEC/AQD... Shares a joyous and spirit-filled love this Christmas

The Christmas season kicked off at AQD with a lantern parade and opening program held last December 4, which included the lighting of the Christmas tree situated at the AQD grounds.

Below are snapshots of the camaraderie and togetherness of the AQD community in celebration of the holidays.



JE SALAMIDA, KD CAUMBAN

