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A collection of reports on training during attachments and visits /
Tan Geik Hong.

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KOLEJ UNIVERSITI SAINS & TEKNOLOGI MALAYSIA
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HAK MILIK
PERPUSTAKAAN KUSTOM

A COLLECTION OF REPORTS ON TRAINING DURING
ATTACHMENTS AND VISITS

BY

TAN GEIK HONG

A project paper submitted to the Division Of
Fisheries And Marine Science, Universiti
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I SUMMARY

PART I (ATTACHMENT)

Chapter 1 Attachment training at Mardi Freshwater Fisheries Research Station, Batu Berendam, Malacca.

At Mardi we did practical training mostly on the research of freshwater fisheries. There were 6 research projects being carried out here. Research projects covered freshwater food fishes, freshwater prawns as well as aquarium fishes. The main type of training here was mainly concerned with aquaculture and pond management.

Chapter 2 Attachment training on the research of the fishing gears operated in the states of Malacca and Johore.

This project was conducted so as the students had a closer study as well as understanding on the principles, operation and the problems involved in using the selected gears.

Chapter 3 Attachment training at Majuikan Fish/ Udang Galah culture, Puchong, Selangor.

At this attachment the students had to do training on the pond maintenance in a commercial fish farm. The work involved maintaining fish and prawns pond and also the water quality of the ponds.

Chapter 4 Extension training attachment at UPM's extension area, Kg. Sg. Machang Hulu, Lenggeng, Negri Sembilan.

This training involved the students in helping the fish farmers the ways of maintaining their fish ponds as well as to work together with the fish farmers. The students had to do weeding and clearing of weeds near the pond area.

PART II (VISITS)

Chapter 1 Visit to Fish Breeding Station,
Enggor, Perak.

This visit to the station showed us the importance of a breeding station. It produces frys to be supplied to the local farmers in Perak. Most of the frys produced were Lampan jawa and Lee Koh fries.

Chapter 2 Visit to Fisheries Research Institute,(FRI),
Glugor, Penang.

This institute did research on the production of Udang galah and the frys produced were supplied to the fish farmers free. It also had the environmental section where research on the rivers and streams as well as pollution were done. A resource section was also set up to estimate effects of fishing on our resources.

Chapter 3 Visit to Malayan Marine Industry Sdn. Bhd.,
Jelutong, Penang.

This factory produced canned tuna fish as well as canned Albacore fish. Most of the products were exported to other countries. The canning process was very advanced and efficient.

Chapter 4 Visit to Grouper Culture in floating cages,
Jelutong, Penang.

Grouper culture in floating cages was done by building the floating cages in the sea water a few miles from the coast. This culture involved in the culture of Groupers and should be encouraged.

- Chapter 5 Visit to Biology Station of Universiti Sains Malaysia, Telok Aling, Telok Bahang, Penang.
This station was used by the students of the School of Biological Sciences for their field courses every year. This visit widened our knowledge on the set up of the recirculated water system which was essential if the hatchery lack water supply.
- Chapter 6 Visit Fisheries Institute Malaysia, (Institut Perikanan Malaysia), Batu Maung, Penang.
This institute trained up modern fishermen, engine men and navigators. The 2 courses taught were skipper's course and engineering course. The students here were taught the most modern and scientific methods of catching fish and at the end of the course the students were awarded a certificate.
- Chapter 7 Visit to Biochem Laboratory Sdn. Bhd., Beach Street, Penang.
This laboratory was a private company which analysed the microbiology of foods for the Ministry of Health to ensure that the food produced were safe for eating.
- Chapter 8 Visit to Cockle Culture Project, (Majuikan), Kuala Juru, Province Wellesley.
This Majuikan project culture cockles and some of these cockles were exported to Thailand and some for local consumption. At present there was overproduction of cockles. The cockles (*Anadara granosa*) was one of the highly priced cockles in Malaysia.
- Chapter 9 Visit to Fish Breeding Station, Jitra, Kedah.
This station produced frys of the Lampan jawa and Lee Koh by natural breeding method. It was able to supply the frys to the northern states of Peninsula Malaysia.

Chapter 10 Visit to (Majuikan) Fish/Prawn Processing factory, Kuala Kedah, Kedah.

This visit showed the process of canning fish and the various methods of processing prawns for export.

Chapter 11 Visit to Straits Fish Meal (Kedah) Sdn. Bhd., Kuala Kedah, Kedah.

This visit showed us the method involved in processing trash fish into fish meal which could be used as animal feed.

Chapter 12 Visit to Brackishwater Culture Project of Ikan Siakap, Kota Serang Semut, Kuala Sala, Kedah.

This was a Fishermen cooperative project. The main activity carried out was the culture of ikan Siakap(Lates calcarifis)in brackish water ponds.

Chapter 13 Visit to Floating Cage Culture Project, Tanjung Bawai, Kedah.

This project was a research project presently carried out by Majuikan of the culture of Grouper in floating cages. This was their first trial and if the project proved to be profitable and successful, the fishermen would be encouraged to carry out this type of culture.

Chapter 14 Visit to Maritime Training Centre Malaysia, Kuala Sg. Baru, Malacca.

This training centre trained up dedicated and efficient seamen for efficient operation and management of merchant vessels. Training at this centre was adapted to stimulate ship-board practice and more emphasis was placed on discipline.

Chapter 15

Visit to the Freshwater Fish Breeding Station,
Kong-Kong, Masai, Johore.

This station planned to produce fry by natural breeding and the fry were supplied to the southern states of Peninsula Malaysia with special reference to the state of Johore. Fry of Lee Koh and Lampam jawa were produced.

Chapter 16

Visit to Crab fattening project, Teluk Jawa,
Pelentong, Johore.

This project was carried out privately by a Chinese family. Thin crabs were bought and fattened up using trash fish. This was a good way of conversion of poor quality fish flesh into crab meat.

Chapter 17

Visit to Cahaya Makanan Sdn. Bhd., Tampoi,
Johore Bahru, Johore.

This factory produced chlorella tablets for human consumption. This visit showed us the process of producing chlorella cells which could be used in the green water in our udang galah hatchery.

Chapter 18

Visit to Brackish water Fisheries Breeding
Station, Gelang Patah, Johore.

This visit showed us the pond construction for brackish water culture and was the first brackish water station to be set up in Malaysia. It intended to do breeding of marine fishes as well as brackish water species.

Chapter 19

Visit to Aquamarine Sdn. Bhd., Teluk Kemang,
Port Dickson, Negri Sembilan.

This company was a udang galah hatchery which produced udang galah juveniles for sale. This visit showed us the set up of the hatchery.

- Chapter 20 Visit to Lembaga Pelabuhan Kelang,
Port Klang, Selangor.
This visit showed us the different set up of a port and this was to widened our knowledge on the shipping line and the management involved.
- Chapter 21 Visit to Fusan Fishing Net Manufacturing Sdn. Bhd.,
Jalan North Port, Port Klang, Selangor.
This visit widened our knowledge on the making of yarn, ropes and the process of manufacturing the different types of nets using machines.
- Chapter 2 Researcher attachment on the research
on the fishing gears operated in the
states of Malacca and Johore.
- Chapter 3 Attachment training at Mautikan
Fish/Udang galah culture at Puchong,
Selangor.
- Chapter 4 Extension training attachment in the
UPM's extension area, Sg. Beringhul
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W/ PART I (ATTACHMENTS)

General introduction:

Under this attachment sections, there were 4 different places that we went. The different places include:-

- i) Mardi Freshwater Fisheries Research Station,
Batu Berendam, Malacca. (27.11.78 - 7.12.78)
- ii) Research project on fishing gears operated in
the states of Johore (10.12.78 - 23.12.78)
- iii) Project on Fish/Udang Galah culture (Majuikan),
Puchong, Selangor. (30.12.78 - 6.1.79)
- iv) Extension Training Project in Sungai Machang
Hulu, Lenggeng, Negri Sembilan.
(7.1.79 - 13.1.79)

The main aim of these attachment trainings were to ensure that the students get practical training in working with local people as well as to introduce and exposed the students on research activities carried out by the private as well as the Government bodies. It was hoped that with such practical training and theoretical aspects learnt by the students, in future our students may carry out their jobs efficiently.