

## CURRICULUM VITAE

### I. Biographical Data

**A. Name of candidate:** Amaratne Yakupitiyage

### B. Education

1. Ph.D. (Aquaculture), University of Stirling, Scotland, 1989
2. M.Sc. (Aquaculture), Asian Institute of Technology, Thailand 1984
3. B.Sc. (Zoology), University of Kelaniya, Sri Lanka, 1979

**C. Positions held:** Associate Professor

### D. Special honors and awards

The Superior Paper Award (2003) was awarded by the Aquaculture Engineering Society on 19<sup>th</sup> January 2005 in recognition of authorship of a contribution to Aquaculture Engineering literature of exceptional merit. The paper has been selected for this award from all papers published in Aquaculture Engineering journal during the year 2003

Li Lanhai and A. Yakupitiyage\_(2003) A model for food nutrient dynamics of semi-intensive pond fish culture, Aquaculture Engineering, 27: 9 – 38.

## II. Pedagogy

### A. Experience as a teacher

The following courses are taught at AIT:

- ED71.25 Aquaculture and aquatic resources systems 2(2-0)
- ED 71.02 Aquaculture nutrition and feed technology 2(2-0)
- ED71.37 Wetland Ecosystem Management
- ED71.34 Statistical Application in Aquaculture and Aquatic Resources Management (with Dr. R Bhujel) 3(2 -1)
- ED71.14 Thesis research workshop 2(1-3)
- ED71.24 Tools for Integrated Coastal Zone Management (2(2-0)
- ED71.9012 Coastal Management and Evaluation 3 (1 – 2)
- ED71.28 Aquaculture Planning and Management (2(2-0)

### B. Pedagogical Development

#### 1. AIT AARM and ICM curriculum

The curriculum of Aquaculture and Aquatic Resources Management (AARM) program is updated and modified by organizing/ facilitating series workshops with AARM faculty/ staff members during 2000 - 2003 and it was continuously updated and modified. Integrated Coastal Management (ICM) curriculum is revised and offered as a Certificate Course in 2011.

#### 2. Development of flexible Master degree program in Aquaculture and Aquatic Resources Management

I facilitated the development of a flexible degree program at AIT. The program was designed to provide the opportunity for students to study for Master's degree while they work in their regular jobs. While field-based AIT Aqua Outreach Program (AOP) operations focuses on building capacity of local institutions for poverty alleviation, the flexible study program widened the academic focus of aquatic resources planning and management curriculum at AIT. The education and training program was planned to have flexibility in delivery (e.g. distributed education systems, asynchronous open learning, in-service training), the content (increased range of subjects and disciplines), and course duration within existing academic standards and regulations of AIT.

### **3. Teaching tool development**

1. Developed computer aided instruction (CAI) systems as teaching/learning tools for aquaculture nutrition course in 2003.
2. Pedagogical techniques development - Inclusion of systems modeling part into Aquaculture Systems course and train students on the system analysis and development of aquaculture and ARM system models
3. Laboratory manual - Revise and update laboratory manual for Analytical Techniques in Aquaculture course (Nutritional analysis)

### **4. Curriculum development workshops in national universities**

I have assisted in the development of new aquatic resources and aquaculture curriculum in Nong Lam University (former University of Agriculture and Forestry), Ho Ching Minh city, Vietnam and Royal University of Agriculture, Phnom Penh, Cambodia. This activity was carried out through organizing a series of workshops as shown below:

1. Facilitated/ supervised Aquaculture and Fisheries B.Sc Curriculum Development workshops at the Royal Agricultural College, Phnom Penn, Cambodia. Sponsor: AIT Aquaculture Outreach, 15 – 19<sup>th</sup> August 1994 and June 1995.
2. Facilitated/ supervised Aquaculture and Fisheries (Bachelor) Curriculum Development at the University of Agriculture and Forestry, Ho Chin Minh City, Vietnam. Sponsor: AIT Aquaculture Outreach. First workshop was conducted on August, 1995 and subsequently the curriculum was updated by organizing workshops in 1999 and 2001.
3. Facilitated/ supervised Aquaculture and Fisheries (Masters) Curriculum Development at the University of Agriculture and Forestry, Ho Chin Minh City, Vietnam. Sponsor: AIT Aquaculture Outreach, December 1999
4. Facilitated development of Aquaculture nutrition, aquatic resources management experimental design courses in Bangladesh universities under DFID funded 'Support for University Fisheries Education and Research of Department for International Development (SUFAR) project during 2002 - 2004
5. Facilitated the development of Aquatic Resources Management Course syllabus in the Royal University on Phnom Penh, 2005
6. Aquaculture Nutrition Master Class for 40 participants in Asia- 7 - 20 August 2006, AIT Conference center in collaboration with Australian Center for International Agricultural Research
7. Participate in Education development sub-group in the workshop on Strategic Plan Development of Royal University of Agriculture in Cambodia, Jan 2009
8. Facilitated Fisheries/ Aquaculture curriculum development of Lao National University (2 workshops conducted; 2011 and 2012

#### **4. Other pedagogical activities during the current contract period (July 2012 – June 2013)**

- 4.1. In collaboration with MMF, IUCN, Integrated Coastal Management (ICM) curriculum was further modified taking students' feedback, and new curriculum was offered in January – February 2013
- 4.2. Following new/modified courses are developed/ strengthened during the current contract period::
  - A. ED71.24 Tools for Integrated Coastal Zone Management (2(2-0)
  - B. ED71.9012 Selected Topic: Coastal Project Management and Evaluation 3 (1 – 2)
- 4.3. Undergraduate Curricula: Development of two undergraduate curricula in Biosystems Engineering and Environmental Engineering

### **5. Short course training**

Regularly teach fish nutrition and feed technology aspects in tailor-made short course training programs organized by the Training and consultancy unit of AARM FoS including the current contract period

### III. Student Research Supervision

#### A. Theses supervised: Master's degree

Student	Country	Year	Thesis Title
1. R.Z.Jauhari	Indonesia	1989	The effect of dietary energy and protein levels of practical diet on growth response of the hybrid catfish
2. J.V. Yogarajah	Sri Lanka	1989	Fungal protein enrichment of cassava by solid state fermentation and its use as fish feed
3. L.T. Hung	Vietnam	1989	Evaluation soybean as a supplementary feed for red tilapia
4. T.M.F. Satradiwirja	Indonesia	1990	Protein and energy requirement of male red tilapia
5. Md. A. Haque	Bangladesh	1990	Use of dry green leaves protein source in pelleted feed for sex reversed Nile tilapia
6. G. Gopalan	India	1990	A preliminary assessment of herbivory in silver barb (Co-chair)
7. R.R. Dhital	Nepal	1990	Supplementary feed requirement of tilapia in relation to stocking density
8. N. Van Tu	Vietnam	1991	Food consumption and digestion of Nile tilapia in pond culture
9. K.S. Ratnayake	Sri Lanka	1991	Studies of culture of <i>Moina macrocopa</i> using organic and inorganic inputs
10. A.R. Dhali	Bangladesh	1992	Supplementary feeding standard of pelleted feed for Nile tilapia
11. Widnyamatmoko	Indonesia	1992	Production techniques of leaf protein concentrate from sweet cassava and its nutritional value for Nile tilapia
12. A.K. Shukula	India	1992	Removal of toxic anti-nutrients from bitter cassava leaves and its effect on the feed quality for Nile tilapia
13. Li Yan	China	1992	Nutritional limiting factors of duckweed and cassava leaf meal based diets for Nile tilapia
14. Yuan Derun	China	1993	Compensatory growth of Nile tilapia
15. Patel A.B.	India	1993	Evaluation of supplementary feeding strategies for Nile tilapia
16. Dato, C.R.S.	Philippines	1993	Mineral requirement of Nile tilapia under a supplementary feeding regime
17. Sombat S.	Thailand	1993	Feed composition and feeding strategies in relation to salinity for <i>Penaeus monodon</i>
18. Nuov S.	Cambodia	1993	The use of live maggots derived from pig manure in the cage of African catfish (Co-chair)
19. Bhujel R.C.	Nepal	1994	Effects of night time illumination on the growth of Nile tilapia
20. Yacoob S.Y.	India	1994	Eutrophication of shrimp ponds and biological control using Nile tilapia
21. Yodsuka E	Thailand	1994	Use of hydrolytic enzymes to improve nutrient availability of cassava leaf meal
22. S.A Piracha	Pakistan	1994	Effect of suspended solid on freshwater fish and its removal from fish ponds
23. Hossain, A.	Bangladesh	1995	Designing a filtration system for partially trapping suspended solids from fish ponds
24. Sarkar, R.U	Bangladesh	1995	Alternative phosphorus sources for formulated fish feed
25. Baouthong, P	Thailand	1995	The effect of feeding regime on growth and body composition of shrimp
26. Amechi ,M.E.O	Liberia	1995	An assessment of by-catch biomass in experimental fish ponds

Student	Country	Year	Thesis Title
27. Em-orn, R.	Thailand	1995	Characterization and classification of off-flavor of Nile tilapia
28. Xie, J. J.	China	1995	Alternative methods for maggot production
29. Ungesethaphan, T	Thailand	1995	An on-farm trial to investigate feeding strategies for Nile tilapia broodfish. (Co-Chairman)
30. Borin, C.	Cambodia	1996	The socio-technical assessment of the utilization of low-value fish in Cambodia
31. Rupasinghe, J.W.	Sri Lanka	1996	Technological assessment of the shrimp industry in Sri Lanka
32. Wang Weamin	China	1996	Reproductive biology and artificial insemination of icefish ( <i>Neosalanx pseudotaihuensis</i> ) in the Xujiuhe reservoir, Hubei, China
33. Keo Savannary	Cambodia	1997	Technological assessment of feed use in Cambodian cage/fish culture
34. Chan Rotha	Cambodia	1997	The interactive effect of feeding frequency and feeding time for growth of Nile tilapia
35. Sheng Haiqing	China	1997	Comparison of the genetic structure of four tilapia strains using mtDNA analyses (Co-chair)
36. W. R. Rohitha	Sri Lanka	1997	Strengthening the institutional framework to promote the coastal aquaculture of northwestern province, Sri Lanka
37. Huang Neng	China	1997	Designing of a computer-based training courses on fish nutrition
38. M. A. K. Chowdhury	Bangladesh	1997	Techno-socio-economic aspects of development of cage aquaculture in Oxbow lakes of Bangladesh
39. J. Pratatoomyot	Thailand	1998	Criteria for Feed Formulations for Aquarium Fish, Goldfish ( <i>Carassius auratus</i> )
40. L. Wijeeyardena	Sri Lanka	1998	Formulation of a Strategy to Develop Lake-based Hatcheries in Sri Lanka
41. R. G. S. Wijesekara	Sri Lanka	1998	Techno-Economical Evaluation of Fresh Water Ornamental Fish Industry in Sri Lanka
42. M. V.de la Cruze Camacho	Philippines	1998	The Effect of Vitamin E on Salinity Tolerance, Growth, Body Composition and Flesh Quality of Nile Tilapia ( <i>Oreochromis niloticus</i> )".
43. Trong Ha Phuong	Vietnam	1998	Preliminary Trials for Nursing Common Carp in Cages in Eakao Reservoir, Daklak Province, Vietnam (Co chair)
44. I Putu Hery Suditha	Indonesia	1998	The Timing of Fertilization based on Secchi Depth
45. Sem Viryak	Cambodia	1999	The Assessment of Potential for Rice-Fish Culture in Recession Rice Farming System in Takeo Province, Cambodia
46. Bambang Gunadi	Indonesia	1999	Factors Affecting the Carrying Capacity of Tilapia ( <i>Oreochromis niloticus</i> ) pond culture
47. Luy Pisey Ruth	Cambodia	2000	Assessment of Silver Barb Culture Potential in a Green Water System in Cambodia
48. Chheng Touch	Cambodia	2000	Appropriate Technology for Small-scale Aquaculture in Takeo Province, Cambodia
49. Indra Suharman	Indonesia	2000	Replacement of Fish Meal with Soybean Meal for Jambal Siam Catfish ( <i>Pangasius hypophthalmus</i> ) Feeds
50. Sarinee Tuntipaswasin	Thailand	2000	The Assessment of Limiting Nutrients for Intensive Shrimp Culture in Plastic Lined Ponds (Co-chair)
51. Somchai Ponalasit	Thailand	2000	Comparison of Un-ionized Ammonia Tolerance between Gift and Chitlada Strains of Nile Tilapia ( <i>Oreochromis niloticus</i> )
52. Nguyen Minh Duc	Vietnam	2001	Impact of Aquaculture Development on Small Scale Farmers : A Case Study of AIT-Aquaculture Outreach Program in Southern Vietnam

Student	Country	Year	Thesis Title
53. Nookrai Pholweing	Thailand	2001	Patterns of Trap Pond Management of Small-Scale Farmers in Yasothon Province, Thailand
54. Nguyen Trong Hien	Vietnam	2001	Evaluation of the Effect of Protein Levels and Lipid Sources on Reproductive Performance of Nile Tilapia, <i>Oreochromis niloticus</i> (Co-chair)
55. Amorn, L	Thailand	2001	The Control of Salmonella in Chicken Offal Based Feed for Hybrid Catfish (female <i>Clarias macrocephalus</i> x male <i>C. gariepinus</i> )
56. Trong Hoang Minh	Vietnam	2001	Management of the Integrated Mangrove-Aquaculture Farming System in the Mekong Delta of Vietnam
57. Phan Minh Thu,	Vietnam	2002	Application of geographical information system and remote sensing for (historical) mangrove status and its implication in shrimp culture activities in the Mekong Delta, Vietnam
58. Dinh The Nhan	Vietnam	2002	Status of fisheries production in Tri An Reservoir, Vietnam
59. Pham Quoc Hung	Vietnam	2002	Evaluation of potential of live microalgae <i>Chaetoceros</i> for improvement of seed quality of the black tiger shrimp, <i>Penaeus monodon</i>
60. N. Van Quynh Boi	Vietnam	2002	Lobster ( <i>Parulinus ornatus</i> ) Cage culture practices and the potential environmental impacts of feed use in Van Ninh district, Khanh Hoa province, Vietnam
61. Malasri Khumsri	Thailand	2002	Fisheries co-management in Sirindhorn reservoir, Ubonratchathani province in Thailand. A case study on the river sprat ( <i>Clupeichthys aesarnensis</i> ) fishery
62. Chomanard Puangswat	Thailand	2002	Fermented fish products (Pla Ra) in Sisaket province, Thailand and its potential health implication
63. S.M. Nazmul Alam	Bangladesh	2002	Shrimp based farming systems in south-western coastal zone of Bangladesh (Co- chair)
64. Arumughan Bashir	Pakistan	2002	Potential rice-fish integration towards alleviation of rice-weed competition (Co-chair)
65. Ho Minh Tuan	Vietnam	2002	Effect of small reservoir management strategies on poor rural people's livelihood a case study in Binh Phuoc province, Vietnam (Co chair)
66. Menake Gammanpila	Sri Lanka	2003	Evaluation of the Effect of Dietary Vitamin C, E and Zinc Supplementation on Reproductive Performance of Nile tilapia ( <i>Oreochromis niloticus</i> L.)
67. A. H. Md. M. Kamal	Bangladesh	2003	Effects of Salinity on the Growth of <i>Oreochromis Niloticus</i> , <i>O. mossambicus</i> and Their Hybrids (Co chair)
68. Huynh Huu Ngai	Vietnam	2003	The effect of different quality feeds on the Nutrient Utilization Efficiency, Growth and Yield of Monosex Gift Tilapia
69. Boonthanom Chamsinhg	Lao PDR	2004	Evaluation of diets formulated using local resources for ( <i>Pangasius hypophthalmus</i> ) In Lao PDR
70. Souvanny Phommakone	Lao PDR	2004	The toxic effects of pesticide dimotholate and profenofos on Nile tilapia ( <i>Oreochromis niloticus</i> ) fry and water flea ( <i>Moina macrocopa</i> )
71. A. K. M. M. A. Pasha	Bangladesh	2004	Impact of the Patuakali Barguna aquaculture extension project on the livelihoods of rural poor in the coastal zone of Bangladesh (Co-Chair)
72. S. Kaneshalingam	Sri Lanka	2004	Effects of high levels of vitamin C, E and zinc on reproductive performance of Nile tilapia
73. Md A. Z. Khan	Bangladesh	2005	Application of participatory tools for the analysis of coastal fisheries in the Moheshkhali island, Bangladesh
74. Proum Kimor	Cambodia	2005	Impacts of Aqua Outreach project on rural household livelihood in Takao province, Cambodia

Student	Country	Year	Thesis Title
75. Aye Aye Mya	Myanmar	2006	The effect of chitosan and hydroxycitric acid on the growth and body lipid distribution of striped catfish
76. Sawitree Chamsiri	Thailand	2006	Stress response of goldfish cultured with sucker-mouth catfish
77. Thak Kuntheeng	Cambodia	2006	Cage culture in Tonal Sap: A situation analysis
78. William Murray	USA	2006	Communication strategies for rural development and aquatic resources management
79. Buonthong Sengrilakham	Lao PDR	2007	Developing Appropriate System of Development Planning for District Offices in Southern Laos
80. Chau Thi Da	Vietnam	2007	Environmental impacts from feed used in aquaculture systems in the vicinity of the Mekong river, Vietnam
81. U. Limtipsuntorn	Thai	2007	Evaluation of feeding attractants to improve feeding response and growth of marbal goby
82. Te Rithy	Cambodia	2007	An evaluation of the benefits of rice & rice-fish culture with and without IPM in Takao Province, Cambodia
83. Bui Chau Truc Dan	Vietnam	2008	Development of suitable weaning method to acclimatized whisker catfish larvae to dry feeds
84. Ong Moc Quy	Vietnam	2008	Evaluation of potential for using water hyacinth leaf protein concentrate as a protein source in Nile tilapia feeds
85. Nguyen Thi Bich	Vietnam	2008	Assessment of policies and practices of wetland aquatic resources management in Lao PDR
86. Nguyen Thanh Tam	Vietnam	2008	Effect of pesticides on aquatic biodiversity of rice-fish farming system
87. Vo Vanh Vinh	Vietnam	2008	Effect of HCN from cassava factories on water quality, growth and survival of Nile tilapia
88. A. Khundeck	Thai	2008	Development of suitable weaning method to acclimatized wild-caught snakehead fry to dry feeds
89. Niyom Wongyai	Thai	2008	Effect of dietary protein and ingredient composition on growth, survival and feed efficiency of Spotted Babylon
90. J. Songphatkaew	Thai	2008	Comparison of fixed station feeding vs. mobile feed blower in commercial Nile tilapia culture
91. Luu Tuong Ngoc Hieu	Vietnam	2008	Production Analysis of <i>Pangasius</i> Catfish Culture in The Mekong Delta, Vietnam: Case Study in Vinh Long and Can Tho Provinces
92. Vo Chi Dung	Vietnam	2008	Integrated lobster, mussel and seaweed culture in Natrang bay, Vietnam
93. Troung Minh Ut	Vietnam	2009	Development of feeding regime for <i>Anguilla marmorata</i>
94. Wahida Haque	Bangladesh	2009	Effect of medications on the survival of wild-caught snakehead fry during weaning to artificial feeds
95. Pakin Santanan	Thai	2009	Ecotourism: A mean to support conservation efforts in Welu Wetland, Chanthaburi, Thailand
96. Theerawat Samphawamna	Thai	2009	Development of appropriate weaning method for stinging catfish to acclimate to artificial feed
97. Suttisak Boonyoung	Thai	2009	Effect of crystalline lysine on the growth performance of Nile tilapia
98. Rungkam Suebeing	Thai	2009	Comparison of one and two-tube reverse transcriptase nested PCR methods for detecting Nodavirus Infections in <i>Macrobrachium rosenbergii</i>
99. Noratat Hutassith	Thai	2009	Evaluation of enzyme treated feather meal as a protein source for Nile tilapia
100. Surisa Rongtong	Thai	2009	Environmental carrying capacity for ecotourism in the coastal areas

Student	Country	Year	Thesis Title
101. Akhane Phomsouvanh	Lao PDR	2009	Assessment of aquaculture extension strategies with emphasis of gender: A case study in Lao PDR (incomplete)
102. K. S. Atapaththu	Sri Lanka	2010	Evaluation of adopted best management practices in shrimp farming in Sri Lanka using life cycle assessment
103. Arissara Sopawong	Thai	2010	Replacement of fish meal by enzyme treated feather meal supplemented with methionine and lysine for red tilapia ( <i>Oreochromis niloticus</i> X <i>Oreochromis mossambicus</i> )
104. Ha Phu Loi	Vietnam	2010	Assessment of the effect of Fenobucarbon on acetylcholinesterase activity and growth of silver barb ( <i>Puntius gonionotus</i> , Bleeker, 1850)
105. Tran Le Cam Tu	Vietnam	2010	A comparative study of energy partitioning of Tra catfish ( <i>Pangasius hypophthalmus</i> ) fed farm-made feed and commercial feed.
106. Sirisopa Munsiri	Thai	2010	Effect of different feeding regimes, weaning period and stocking density on survival and growth of spotted featherback fish fry ( <i>Chitala ornata</i> ).
107. S. Sakunthala Herath	Sri Lanka	2010	Evaluation of methods for improvement of digestibility and growth performance of Nile tilapia ( <i>Oreochromis niloticus</i> ) fed on enzyme treated feathermeal
108. Phan Thi Thanh Truc	Vietnam	2010	Effect of replacing fish meal by a mixture of plant protein sources on growth performance, feed utilization and body composition of Nile tilapia ( <i>Oreochromis niloticus</i> )
109. Anthony Henry Dadu	Tanzania	2010	Evaluation of suitable ingredient composition for supplementary feed of Nile tilapia ( <i>O. niloticus</i> ) grown in fertilized earthen ponds.
110. N. Beatrice Marwa	Tanzania	2010	A feasibility study of small scale Soy bean Protein Concentrates (SPC) production and its use as a feed ingredient for Nile tilapia ( <i>Oreochromis niloticus</i> )
111. Vanny Sengkapkeo	Lao PDR	2010	Impact of changes in river flow on the livelihood of fisherman in Southern Laos: A case study in Kong district of Champasak province
112. Hirunya Chumjinda	Thailand	2011	Farmer strategies to reuse and renovate abandon shrimp ponds: A case study in Pak Phanang, Nakhon Si Thammarat, Thailand
113. Viengxay Xaydala	Lao PDR	2011	Success and failures of community fishery regulation implemented in Kiet Ngong swamp, Lao PDR
114. Ly Vuochnay	Cambodia	2012	Assessment of public participation in co-management of aquatic resources
115. Jedsada Ketheng	Thailand	2012	Protein requirement of knife fish
116. Yupareat Banchun	Thailand	2012	Evaluation of alternative strategies for using abandon shrimp ponds
117. Supanuth Chuerattanakul	Thailand	2012	Role of public aquaria in aquatic conservation education
118. M.A.D. A.D. Perera	Sri Lanka	2012	N & P losses through seepage of tilapia ponds
119. Ly Vuochnay	Cambodia	2013	Assessment of public participation in co-management of aquatic resources
120. Rachmawati Rusydi	Indonesia	2013	Culture of cyanobacteria <i>Nostoc muscasam</i> and <i>Synechococcus elongates</i> using tofu waste
121. Suntree Pumpuang	Thailand	2013	Lipid yield of <i>Microcystis argunosa</i> grown in chicken manure fertilized water
122. Wasim Sabbir	Bangladesh	2014	Effect of mixed feeding schedules with a single diet on the reproductive performance of Nile Tilapia
123. Nguyen Thi Kim Quyen	Vietnam	2014	Hau River ecosystem services values and striped catfish ( <i>Pangasianodon hypophthalmus</i> ) aquaculture in Long Xuyen city, an Giang province, Vietnam

## B. Doctoral students

Student	Country	Year	Dissertation Title
1. Santos, E.V.	Philippines	1993	Utilization of selected terrestrial vegetation and aquatic macrophytes by the herbivorous fish, Silver barb ( <i>Puntius gonionotus</i> )
2. Sunarno, T.D	Indonesia	1996	Feeding strategies for silver barb ( <i>Puntius gonionotus</i> )
3. Li Lanhai	China	1997	Food nutrient dynamic model for semi-intensive pond aquaculture
4 R. C. Bhujel	Nepal	1999	Management of Nile tilapia ( <i>Oreochromis niloticus</i> ) Broodfish for Commercial Seed Production in Thailand
5 Kanjna Payooaha	Thailand	2002	Impact of Feeding Strategies on the Growth and Flesh Quality of Striped Catfish". ( <i>Pangasius hypophthalmus</i> )
6. Vu Cam Luang	Vietnam	2004	Management strategies for marble goby-carp polycultured in coves based on natural food webs in Tri An reservoir, Vietnam (Co-chair)
7. Pradit Sripatrprasite	Thailand	2005	Effects of fish ladder on migratory fish species and fisheries in the Pak Mun Dam
8. Weena Koeypudsa	Thailand	2005	The impact of chlortetracycline residue from fresh chicken manure on pond ecosystem
9. Jamjun Pechsiri	Thailand	2005	A comparative study of growth performance and energetic efficiency of diploid and triploid Nile tilapia ( <i>Oreochromis niloticus</i> ) L.
10. Dao Huy Giap	Vietnam	2005	Analysis of sustainability of the shrimp farming systems in Haiphong of Vietnam
11. Tran Ngoc Hai	Vietnam	2005	Effects of mangrove leaf litters on the integrated mangrove – shrimp farming systems In Ca Mau province, Vietnam
12. Mizanur Rahman	Bangladesh	2006	Assessment of tilapia pond sediment properties and its efficacy to improve soil fertility
13. Methee Kaewnern	Bangladesh	2007	Situation analysis of mollusk culture in Bandon Bay
14. Chavan Balu Ramdas	India	2008	Improvement of quality characteristics of Indian mackerel ( <i>Rastrilliger kangurta</i> ) by solar drying
15. Dipak Kamal	Bangladesh	2009	Technical and economic feasibility of mud crab ( <i>Scylla olivace</i> ) culture in coastal Bangladesh (deceased just before completion of Ph.D)
16. Daniel C. Sikawa	Malawi	2010	Use of catfish pond effluent for hydroponics culture
17. Dok Doma	Cambodia	2010	Impact of exotic aquatic species on the environment
18. Vu Nam Son	Vietnam	2011	Prawn culture and its impact on aquatic environment in S. Vietnam
19. Nudtha N	Thailand	2012,	Molecular cloning and characterization of T cell receptor beta gene in Nile tilapia
20.. Milali E. Machumu	Tanzania	2012	Assessment of the effectiveness of Marine Park in Tanzania
21. Pichet Plaipetch	Thailand	2012	Reduction of anti-nutritional factors in canola meal
22. Pavarot N	Thailand	2013	Potential for reduction in commercial fishing effort in the Gulf of Thailand
23 Theonakhet Saphakdy	Lao PDR	-	Gender mainstreaming in aquatic resources management in Lao PDR (RESIGNED DUE TO SLOW PROGRESS)
24. Loeung Kesaro	Cambodia	On-going	Participatory aquatic resources management in Cambodia (Co-chair)
25. Methee Juntaropakorn	Thailand	"	
26. Roya Gorbani	Iran	-	Certificate of Advanced Studies



## Resulting publications (Doctoral thesis)

1. Li Lanhai and A. Yakupitiyage (1998) Food nutrient dynamics model for fertilized pond aquaculture. *Systems Dynamics: An Int. J of Policy Modeling*. X (1-2): 85 - 115.
2. Li Lanhai and A. Yakupitiyage (2000). A Model for Food Nutrient Dynamics, food production and fish growth fertilized tropical ponds, *J. Aqua. Trop.* 25 (2): 153 – 184
3. Li Lanhai and A. Yakupitiyage (2003) A model for food nutrient dynamics of semi-intensive pond fish culture, *Aquaculture Engineering*, 27: 9 – 38.
4. Bhujel, R. C., A. Yakupitiyage, W. Turner and D. Little (2001) Selection of a commercial feed for Nile tilapia brood-fish breeding in a hapa-in-pond system". *Aquaculture*, 194: 303- 314.
5. Bhujel, R. C., A. Yakupitiyage, W. Turner and D. Little (2001). Impacts of environmental manipulation on the reproductive performance of Nile tilapia (*Oreochromis niloticus*) *Journal of Aquaculture in the Tropics*, 16(3): 179-209.
6. Md. Mizanur Rahman, A. Yakupitiyage and S. L. Ranamukhaarachchi (2004). Agricultural use of fishpond sediment for environmental amelioration, *Thammasat International Journal of Science and Technology*, 9 (4), 1-10.
7. Giap, D.H., Yi, Y., A. Yakupitiyage (2004). Remote sensing to assess shrimp farming development in Haiphong of Vietnam. *Journal of Aquaculture in the Tropics*, 19(3) 201-214.
8. Giap, D.H., Yi, Y., A. Yakupitiyage (2004) Remote sensing to assess shrimp farming development in Haiphong of Vietnam. *Journal of Aquaculture in the Tropics*, 19(3) 201-214.
9. Pechsiri, J and A. Yakupitiyage (2005) A comparative study of growth and feed utilization efficiency of sex reversed diploid and triploid Nile tilapia, *Oreochromis niloticus* L. *Aquaculture Research*, 36: 45 – 51
10. Giap, D.H., Yi, Y., A. Yakupitiyage (2005) GIS for land evaluation for shrimp farming in Haiphong of Vietnam. *Ocean & Coastal Management*, 48, 51-63.
11. W. Koepudsa, A. Yakupitiyage, and J. Tangtrongpiros (2005) The fate of chlortetracycline residues in a simulated chicken-fish integrated farming systems, *Aquaculture Research*, 36: 570 – 577.
12. Tran Ngoc Hai and A. Yakupitiyage (2005) The effects of the decomposition of mangrove leaf litter on water quality, growth and survival of black tiger shrimp (*Penaeus monodon* Fabricius, 1798) *Aquaculture*, 250: 700 - 712
13. Rahman, M.M. and A. Yakupitiyage (2006) Use of fishpond sediment for sustainable aquaculture-agriculture farming *International Journal of Sustainable Development and Planning* 1 (2): 192-20
14. Rahman, M A. Yakupitiyage, and S. L. Ranamukhaarachchi, (2006) Fertilizer requirement of Morning Glory for its higher production in the Asian region. *Asia-Pacific Journal of Rural Development*, Vol XVI, No 2:121-132:
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#### IV. Research

##### A. Publications

###### Book Chapters

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#### **Paper/abstracts in conference proceedings**

1. Yakupitiyage, A. (1991). Use of plant fodder as fish feed in tropical aquaculture systems. IV International Symposium on Fish Nutrition and Feeding, Biarritz, France, June 24-27, 1991.
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#### **Magazine articles and monographs**

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#### **Invited Presentations**

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3. Yakupitiyage, A. (1996) Use of organic manure and fertilizers in Aquaculture. In proceedings of the conference on 'The Use of Chemicals in Aquaculture in Asia', Tigbauan, Iloilo, Philippines, 20-22 May 1996.
4. Yakupitiyage, A. (2000) Models in Aquaculture Nutrition, II International Symposium on Aquaculture, Peruvian Government Fund for Fisheries Development, Lima, Peru 27 –29 September 2000.
5. Yakupitiyage, A (2006) Fertilization value of fishpond water and sediments in agriculture. Paper presented at the Symposium on Fish Pond in Farming Systems, Cantho University, Vietnam, 25 - 28 April 2006
6. Yakupitiyage A (2008) The potential for the development of eco-tourism as a means to support mangrove conservation effort Mangroves for the Future Programme of IUCN, Scientific and Technical Symposium on Sustainable Mangrove Ecosystem Management, 22-25 November, 2008

7. Yakupitiyage, A (2009) Aquaculture and Fisheries Curriculum Development in Cambodia, Workshop on Strategic Plan Development (2009 - 2015) of Royal University of Agriculture 21 - 23 January 2009
8. Yakupitiyage (2010) Paper presented at FAO Expert Workshop Report on "On-farm feeding and feed management in aquaculture" held in Manila, Philippines, from 13 -15 September 2010.

### **Development project reports**

1. Yakupitiyage, A (2001) A Review of Aquaculture Nutrition Research in Bangladesh, Asian Institute of Technology, Thailand; Submitted to DFID SUFER Project; Dhaka, Bangladesh
2. Final Project Report of Aqua Outreach Programme (2001 - 2004) Rural Development through Aquatic Resources Management Sida-AIT Development Cooperation Programme; Phase III (Asian Institute of Technology, Thailand, July 2005
3. Lowry, K., A. Yakupitiyage<sup>2</sup>, S.L. Ranamukhaarachhi<sup>2</sup> and Glenn Ricci (2007) An Assessment of Capacity for Effective Coastal Management - Sri Lanka Country Assessment, Mangroves for the Future (MFF) Programme; Programme of Work #7.1; National capacity and training needs assessments for different stakeholder groups in order to identify gaps, needs, and strengths and opportunities for building capacity in Integrated Coastal Management (ICM), 38 pp.
4. Crawford, B., R. Shrestha, D. Bengen, A. Yakupitiyage, V. Nitivattananon, and T. Tingsanchali (2007) An Assessment of Capacity for Effective Coastal Management - Indonesia Country Assessment, Mangroves for the Future (MFF) Programme; Programme of Work #7.1; National capacity and training needs assessments for different stakeholder groups in order to identify gaps, needs, and strengths and opportunities for building capacity in Integrated Coastal Management (ICM), 42 pp.
5. Gamucci, O.D. and A. Yakupitiyage (2008) An Assessment of Capacity for Effective Coastal Management: Compendium of ICM Training Providers Mangroves for the Future (MFF) Programme; Programme of Work #7.1; National capacity and training needs assessments for different stakeholder groups in order to identify gaps, needs, and strengths and opportunities for building capacity in Integrated Coastal Management (ICM), 24 pp.
6. Yakupitiyage, A., V. Nitivattananon, O. Shipin<sup>1</sup>, D. P. Thakur and U. Bhatiyasevi (2008) An Assessment of Capacity for Effective Coastal Management - Thailand Country Assessment, Mangroves for the Future (MFF) Programme; Programme of Work #7.1; National capacity and training needs assessments for different stakeholder groups in order to identify gaps, needs, and strengths and opportunities for building capacity in Integrated Coastal Management (ICM), 31 pp.
7. Yakupitiyage A. (2008) An Assessment of Capacity for Effective Coastal Management - Seychelles Country Assessment, Mangroves for the Future (MFF) Programme; Programme of Work #7.1; National capacity and training needs assessments for different stakeholder groups in order to identify gaps, needs, and strengths and opportunities for building capacity in Integrated Coastal Management (ICM), 22 pp.
8. Yakupitiyage A., J. K. Routray and M. M. Ahmed (2008) An Assessment of Capacity for Effective Coastal Management - India Country Assessment, Mangroves for the Future (MFF) Programme; Programme of Work #7.1; National capacity and training needs assessments for different stakeholder groups in order to identify gaps, needs, and strengths and opportunities for building capacity in Integrated Coastal Management (ICM), 60 pp.
9. Yakupitiyage, A. and S.L. Ranamukhaarachhi (2008) An Assessment of Capacity for Effective Coastal Management - The Maldives Country Assessment, Mangroves for the Future (MFF) Programme; Programme of Work #7.1; National capacity and training needs assessments for different stakeholder groups in order to identify gaps, needs, and strengths and opportunities for building capacity in Integrated Coastal Management (ICM), 24 pp.
10. Yakupitiyage, A. (2008) Assessing Capacity for Effective Coastal Management in the MFF countries. Final Report. Mangroves for the Future (MFF) Programme; Programme of Work #7.1; National capacity and training needs assessments for different stakeholder groups in order to identify gaps, needs, and strengths and opportunities for building capacity in Integrated Coastal Management (ICM), 28 pp.

### **B. Research grants and sponsored projects**

1. Supplementary feed requirement of tilapia and silver barb polyculture system. *Investigator: A. Yakupitiyage. Sponsor: IDRC, Canada, 1989-1991 (CAD 139,900).*
2. The feeding value of green fodder for herbivorous fish. *Investigators: A. Yakupitiyage and P. Edwards. Sponsor: ODA, London, 1990-1992. (£80,000)*
3. Production of fish meal using septage grown tilapia - Excreta Re-use project. *Investigators: P. Edwards and A. Yakupitiyage. Sponsor: ODA, London, 1990-1992. (£80,000).*



4. Use of leguminous tree leaves as fish pond inputs. *Investigators: D.C. Little, A. Yakupitiyage, P. Edwards, L. Loveshin. Sponsor: USAID, USA, 1991-1994 (S\$ 148, 979)*
5. Biological and economical characterization of fertilization and supplementary feeding regimes for small-scale pond culture. *Investigators: A. Yakupitiyage and P. Edwards. Sponsor: ODA, London. £ 59,996)*
6. Development of feeding system for fish and integrated duck-fish system. *Investigators: A. Yakupitiyage and D.C. Little. Sponsor: IDRC, Canada, 1992-1995 (CAD 147,470)*
7. Comparison of the nutritional energetics of two Nile tilapia strains: An experimental GIFT strain of ICLARM and the widely farmed Thai Chitlada strain. *Investigators: Yakupitiyage and P. Edwards. Sponsor: ODA (London) through International Center for Living Aquatic Resource Management (ICLARM), Philippines. (£80,000)*
8. Feeding practices of cage culture in Cambodia: Case study – A. Yakupitiyage and R. Gregory. *Sponsor: AIT Aquaculture Outreach. Date: December 1997*
9. Nutrition of Climbing perch. *Investigators: A. Yakupitiyage and H. Guttman. Sponsor: AIT Aquaculture Outreach. Date: December 1998.*
10. Role of fatty acid profile in tilapia breeding. *Investigators: A. Yakupitiyage, R.C. Bhujel and D. Little. Sponsor: Agriband Co Ltd. Date: January 2001 (USD 20,000)*
11. Role of self-recruiting species in Aquaculture. *Investigators: A. Yakupitiyage and H. Demaine (AIT) + D. Little and K. Lorenzen (UK) Sponsor: DFID, London. Date: January 2001 (USD 250,000)*
12. Women in aquaculture: Involvement of women in Aquaculture to improve nutritional status and generate supplemental income for Nepalese farm families. *Sponsor WDP German committee. Investigators: A. Yakupitiyage and R.C. Bhujel (April 2000 – March 2004) (USD 55,000)*
13. Status of the exotic species in SE Asia – Sida funded project (USD 31,000)
14. Aqua Outreach programme: Funded by Swedish international development agency (Sida) 200 - 2004 (USD 3.1 million)
15. Improved resource use efficiency in Asian integrated pond-dyke systems (POND LIVE PROJECT). The project is funded by the European Commission. (2002 – 2005) (EURO 111,206)
16. Managing agro-chemicals in multi-use Aquatic Systems (MAMAS). This project is funded by the European Commission. (2002 – 2005) (EURO 110,775)
17. Managing Pesticides in vegetable systems in South-east Asia: combining Environment and Trade (MAPET). This project is funded by European Commission (2004 – 2005) (EURO 52,130)
18. Aquatic Peri-urban Systems in Southeast Asia (PAPUSSA). This project is funded by the European Commission (2003 – 2005) (EURO 79,400)
19. CABI International Aquaculture Compendium (2004 – 2005) (USD 23,574)
20. Mangroves for the Future (MFF) Programme; Programme of Work #7.1; National capacity and training needs assessments for different stakeholder groups in order to identify gaps, needs, and strengths and opportunities for building capacity in Integrated Coastal Management (ICM) 2007 - 2008 (USD 160,250)
21. AIT support to National University of Laos, 2010 2012 – Fisheries Curriculum Development (with Dr. W. Gallardo); 1.5 m Baht (Sida funded)

## **V. Service/Outreach**

### **A. Professional Service**

#### **Organization of Workshops**

1. The 5th Workshop of Asian Fish Nutrition Network 26-30 Jan. 1993, AIT Aquaculture Outreach Project, Udorn Thani, Thailand. Organizer: A. Yakupitiyage, Sponsor: IDRC, Canada.
2. Short course training for regional aquaculture scientists on Experimental Design in Fish Nutrition. 1-8 Feb. 1993, AIT. Organizer: A. Yakupitiyage. Sponsor: by IDRC.
3. Workshop on Experimental design - For Department of Vocational Education (DOVE), Thailand. Organizer: Hans Guttman and Amararatne Yakupitiyage. Sponsor: AIT Aquaculture Outreach Date: 30 Sep 1993 - 1 Oct 1993.
4. Cage Culture Development Workshop, Department of Fisheries, Phnom Penh, Cambodia. Organizer: A. Yakupitiyage and R. Gregory. Sponsor: AIT Aquaculture Outreach. Date: August 1996.
5. Workshop on Low Cost Feed for Caged Fish and Cage Culture Development in Bangladesh, CARE, Bangladesh. Organizer: A. Yakupitiyage and CARE, Bangladesh. Sponsor: CARE Bangladesh. Date: April 1997.

6. Workshop on Aquaculture Nutrition Research in Bangladesh, DFID, Bangladesh. Organizer: A. Yakupitiyage and DFID, Bangladesh. Aquaculture Nutrition Research Themes and a Framework for developing Nutrition Network in Bangladesh; DFID SUFER Project; Dhaka, Bangladesh; 25th January 20
7. 1st Workshop on developing fisheries teaching materials for Bangladesh university teachers, DFID, Bangladesh. Organizer: A. Yakupitiyage and A. Bart. Sponsor: DFID, Bangladesh. Date: 27 June - 7 July 2001.
8. 2nd Workshop on developing fisheries teaching materials for Bangladesh university teachers, DFID, Bangladesh. Organizer: A. Yakupitiyage and A. Bart. Sponsor: DFID, Bangladesh. Date: 27 Aug. - 14 September 2001.
9. AARM Faculty workshops in 2001, 2002 (Decembers) to produce annual plans, Nakon Nayok Prachin Buri
10. 3rd Workshop on developing fisheries teaching materials for Bangladesh university teachers, DFID, Bangladesh. Organizer: A. Yakupitiyage and A. Bart. Sponsor: DFID, Bangladesh.
11. Workshop on developing fisheries teaching materials for Bangladesh university teachers, DFID, Bangladesh. Organizer: A. Yakupitiyage and A. Bart. Sponsor: DFID, Bangladesh
12. 4<sup>th</sup> Workshop on developing fisheries teaching materials for Bangladesh university teachers, DFID, Bangladesh. Organizer: A. Yakupitiyage and A. Bart. Sponsor: DFID, Bangladesh.
13. National workshop on Exotic species use in Aquaculture, Thailand 24 September 2002, Kessasart University, Bangkok Thailand.
14. National workshop on Exotic species use in Aquaculture, Cambodia, 3 – 4 October 2002, Department of Fisheries, Phnom Penh, Cambodia.
15. National workshop on Exotic species use in Aquaculture, Lao PDR, 22 – 24 November 2002, Department of Livestock and Fisheries, Vientiane, Lao PDR
16. National workshop on Exotic species use in Aquaculture, Vietnam, 20 – 21 May 2003, Cantho University, Vietnam
17. Project initiation workshops (Pond Live workshop, Improved resource use efficiency in Asian integrated pond-dyke systems (POND LIVE PROJECT),2002; Managing agro-chemicals in multi-use Aquatic Systems (MAMAS), 2002; CABI International Aquaculture Compendium, 2003; (Managing Pesticides in vegetable systems in South-east Asia: combining Environment and Trade (MAPET). This project is funded by European Commission, 2004, AIT conference center, Thailand
18. State of the Systems workshop, Use of pesticide in Agriculture and its effect on aquatic environment. 18 March 2003
19. EC Project Planning workshop with European Partners, 20 March 2003, Rayong
20. Development of Wetland Alliance workshop (with MRC, WWF. IUCN. WorldFish center SEAFDEC), 16 September 2003
21. Six monthly workshops with Aqua Outreach institutional partners, 2003 - 2004
22. Information dissemination workshop, Use of pesticide in Agriculture and its effect on aquatic environment. 29 April 2005
23. Risk assessment workshop for pesticide use in Thailand and Sri Lanka using the PRIMET tool 17 - 21 October 2005, National Aquatic Resources Agency, Colombo, Sri Lanka (As a part of EC funded MAMAS project)
24. Workshops on the Facilitation of the formation on Wetland Alliance 2005 - 2006
25. Workshop on the Development of pilot Pre-Bridging Program for Lao provincial staff that plan to enter the AIT Bridging Program and Master Degree in Aquatic resources wetland management, 6 – 7<sup>th</sup> December 2005, Savanakheth , Lao PDR
26. Aquaculture Nutrition Master Class for 40 participants in Asia- 7 - 20 August 2006, AIT Conference center in collaboration with Australian Center for International Agricultural Research
27. Workshop on the Capacity and Training Needs for Integrated Coastal Management in the MFF countries - Sri Lanka National workshop, 28<sup>th</sup> October 2007, Colombo, Sri Lanka
28. Workshop on the Capacity and Training Needs for Integrated Coastal Management in the MFF countries - The Maldives National workshop, 10<sup>th</sup> January 2008 The Ministry of Environment ,Male, The Maldives.
29. Workshop on the Capacity and Training Needs for Integrated Coastal Management in the MFF countries - Seychelles National workshop, 23<sup>rd</sup> January 2008, ICCS building, Mahe, Seychelles
30. Workshop on the Capacity and Training Needs for Integrated Coastal Management in the MFF countries - India National workshop, 12<sup>th</sup> February 2008, Samved Conference Hall at the Gujarat Ecological Education and Research (GEER) Foundation, Gandhinagar, Gujarat
31. Curriculum development workshop at Lao National University 2011
32. Curriculum development workshop for teachers of Lao National University (conducted in April 23 -28 at AIT)

## **Seminars**

1. Conducted a seminar on the Fish Feed Technology at the Sisaket Agricultural College, Thailand. Organizer: Amaratne Yakupitiyage. Sponsor: AIT Aquaculture Outreach. Date: 31 May 1993
2. Conducted a seminar on the methodology of Aquaculture and Fisheries Curriculum Development, University of Agriculture and Forestry, Ho Chin Minh City, Vietnam. Organizer: Amaratne Yakupitiyage. Sponsor: AIT Aquaculture Outreach. Date: September 24 - 30, 1994.

## **Participation in development projects**

1. Aqua Outreach Programme - Regional institutional development and capacity building were emphasized in AIT Aqua Outreach program. I have involved in the project during 1990 - 2004 as an advisor for aquatic resources management.
2. Coordinator, Aqua Outreach Program, July 2003 – December 2004  
*Responsibilities:* project development using Logical Framework Approach (LFA) and implementation, monitoring and evaluation, preparation of six monthly progress reports to submit to the donor, conducting on-farm and field research, developed extension and training materials (manuals, leaflets and posters) in collaboration with research and development institutions in Cambodia, Lao PDR, Thailand and Vietnam.
3. Field research on the capacity needs assessment for integrated coastal management in the following countries:
  - ⇒ Sri Lanka - August 6-10, 2007
  - ⇒ The Maldives - 6 - 10 January 2008
  - ⇒ Seychelles January 22 - 25, 2008,
  - ⇒ Gujarat, India - February 6-10, 2008,
4. Formation of the Wetland Alliance - As the AIT Aqua Outreach coordinator, I was actively involved in the formation of the Wetland Alliance during 2005 – 2006

## **B. Significant institute committee service**

### **School**

1. Chair, SERD Laboratory Committee 2000 - 2003
2. Coordinator, Student orientation committee of SERD 2000 - 2003
3. Member of SERD promotional committee (2006 - 2009)
4. Member of SERD restructuring task force 2012
5. Member of task force for the development of chemical engineering undergraduate program
6. Chair - working group on the development of undergraduate program in Resources and Environmental Management & Unified Bachelor and Master Program

### **Institute**

1. Member of Academic Development and Review Committee (before the current contract period)
2. Member of Doctoral Program Revive Committee (before the current contract period)
3. Member of (former) Academic Senate
4. Faculty Relation Committee - 2007 – 2009
5. Member – AIT unified Bachelor's-Master's program 2010 onwards

## **C. Administrative service**

1. Coordinator, Aquaculture and Aquatic Resources Management Field of Study (1999 – 2001).
2. Coordinator, Agricultural and Aquatic Systems & Engineering Program, AIT; 2001 – 2002.
3. Coordinator, Aquaculture and Aquatic Resources Management, FoS (2002 – June 2003)
4. Coordinator, Aquaculture and Aquatic Resources Management, FoS (March 2006 – Jan 2009)
5. Associate Dean for Undergraduate affairs (April 2011 – December 2012)

6. Associate Dean (January 2013 – June 2013)

#### **D. Promotion and marketing**

1. SERD promotional tour to Vietnam in 2007
2. SERD promotional tour to Cambodia in 2009
3. SERD promotional tour. Ache, Indonesia 2011
4. Undergraduate promotion in Myanmar, September 2011
5. Undergraduate promotion in Sri Lanka, September – October, 2011
6. SERD promotion in Ache, Indonesia (Planned – June 2012)
7. Undergraduate promotion in Sri Lanka – June/July 2012 and 2013

#### **E. Community service**

##### **1. Consultancy activities**

- a) NE THAILAND: Feeding option for pond cultured fish in NE Thailand and Vietnam. This was a consultancy for AIT Aquaculture Outreach Project during 1990 – 1995.
- b) NE THAILAND: Assisting in the production of extension materials on Aquaculture Nutrition to distribute to farmers in NE Thailand, 1995
- c) CARE, BANGLADESH: Development of low cost feed for cage culture in Bangladesh, CAGES project, CARE, Bangladesh, April 1997
- d) WES PROJECT, VIETNAM: Sustainability assessment training course in Aquaculture Systems, WES project, Cantho University, Vietnam, September 1997.
- e) MALAYSIA: Fish nutrition training workshop, Agriculture Department, Sarawak, Malaysia, 15-20 December. 1997.
- f) CAMBODIA: Training course on the research methods in Aquatic Resources Management. Royal University of Agriculture, Phenom Penh, Cambodia. 28<sup>th</sup> Oct. – 3<sup>rd</sup> Nov. 1998.
- g) FAO: International Consultant for 'Support for Agriculture and Natural Resources Management in Northern Rakhine State, Union of Myanmar (GCP/MYA/002/HCR)' project of FAO RAP, Bangkok and FAO country office, Myanmar. 11 – 26 October 2000.
- h) DFID, BANGLADESH: International Consultant for developing an aquaculture nutrition research program in Bangladesh. I was contracted by 'Support for University Fisheries Education and Research of Department for International Development (DFID) London project, British High Commission, Dhaka. 9 – 23 December 2000 and 20 – 29 January 2001.
- i) DFID, BANGLADESH: International Consultant for reviewing aquaculture nutrition research projects in Bangladesh. I was contracted by 'Support for University Fisheries Education and Research of Department for International Development (DFID) London project, British High Commission, Dhaka. May 2001.
- j) FAO/UNDP, Consultant on Extension material production for FAO/UNDP project titled "Emergency assistance to rehabilitate the aquaculture sector in the flood affected province of An Giang", Cantho University, Vietnam. February, 2002
- k) FAO, Consultant on Extension material production for UNDP/FAO project titled "Aquaculture development in the Northern uplands" FAO "TCP/VIE/0168 (E) May, 2002 at Research Institute for Aquaculture No. 1, Hanoi.
- l) AIT Aqua Outreach Project (Thailand, Loa PDR, Cambodia & Vietnam): Advisor on the project management, monitoring, progress report production, on-farm/field research, extension & training material production in 1994 – 2004 and Outreach coordinator during 2003 - 2004.
- m) Post-tsunami sustainable livelihoods program, Southern Thailand ; Consultant on fish feed production using locally available resources for tsunami affected communities to develop aquaculture as an alternative livelihood (2006)

##### **2. Serving on program committees**

- a) IFS Scientific Advisor: I have been a Scientific Advisor of International Foundation for Science, Stockholm, Sweden (From 1995 - to date)

##### **3. Refereeing of journal articles, books, grant proposals, etc.**

Regular peer reviewer of the following international journals

- a) Aquaculture
- b) Aquaculture nutrition
- c) Aquaculture Research
- d) Asian Fisheries Science.
- e) Editorial board – Journal of Applied Aquaculture

#### **4. Serving as an external examiner**

I have been served as the external examiner of the following students:

- a) N. M. Jahangir Kabir. A Masters degree candidate of Applied Science in Aquaculture (by research) in Department of Aquaculture, University of Tasmania, Tasmania. (Thesis title: Development of a technique for fish feed digestibility estimations using micro tracers, 1993)
- b) Praneet Ngamsnae: Doctoral candidate of the School of Ecology and Environment, Deakin University, Australia (Dissertation title: Macro and micro nutrient requirement of the young of Australian native freshwater fish: silver perch, *Bidyanus bidyanus* and murray cod, *Maccullochella peelii peelii*, 1999)
- c) Jagath Wickrama Rupasinghe, Doctoral candidate of the Department of Economics and Finance, School of Business,, La Trobe University, Australia ( Dissertation title: Optimal management strategies for barramundi farming and economic benefit of integrating a hydroponics lettuce production system into the barramundi farm, 2004)
- d) Nigel William Abery, Doctoral candidate of the School of Ecology and Environment, Deakin University, Australia (Dissertation title: Inter-relationships between reverine fish species and catchments, southeast Australia, 2005)