
Curriculum Vitae

Palawinnege Ruchira Tharangini Cumaranatunga

Personnel Information



Name in full :- Palawinnege Ruchira Tharangini Cumaranatunga

Address :- **Home** :- 380/1, Galle Road, Mt. Lavinia, Sri Lanka.

Office :- Dept. of Fisheries and Aquaculture, Faculty of Fisheries & Marine Sciences & Technology, University of Ruhuna, Wellamadama, Matara, Sri Lanka.

Telephone number:- **Residence** :- +94(0)112710356

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Date of birth : 29th April 1953

Nationality : Sri Lankan

Sex : Female

Marital status : Single

Career Information

Current Position:

- (i) Senior Professor (Emeritus) in Fisheries Biology, Dept. of Fisheries & Aquaculture, Faculty of Fisheries and Marine Sciences & Technology, University of Ruhuna (from 14-02-2019 to present)

Previous Positions held:

- (i) Senior Professor (from 12-05-2007 to 14-02-2019) and Professor of Fisheries Biology-Chair (From 12-05-1999, to 14-02-2019), Dept. of Fisheries & Aquaculture, Faculty of Fisheries and Marine Sciences & Technology, University of Ruhuna
- (ii) Founder Dean, Faculty of Fisheries & Marine Sciences & Technology (from 27th October 2005 to 27th March 2008)
- (iii) Head/Dept. of Fisheries Biology, Faculty of Science, University of Ruhuna (from 1990 to 2005)

Educational & Professional Qualifications

- Bachelor of Science Special Degree in Zoology with a Second Class, Honours (University of Sri Lanka, Vidyalankara Campus) August 1973 to 1977
- Doctor of Philosophy (University of Aston in Birmingham, U.K.) Sept. 1982- March 1986. (Thesis: The ovarian development of rainbow trout with special reference to atresia).
- Fellow of the Academy of Science Sri Lanka (FASSL) – From 2013

Scholarships, Fellowships, Studentships, other Awards & Felicitations

- (i) Commonwealth Academic Staff Scholarship tenable in the U.K. awarded by the Commonwealth Scholarship Commission, to pursue for a Ph.D. at University of Aston in Birmingham, U.K. (1982 to 1985)
- (ii) Academic Exchange Fellowship awarded by the Association of Commonwealth Universities, U.K. for 3 months, tenable in University Pertanian Malaysia and National University of Singapore. (1991).
- (iii) Fulbright Senior Research Scholarship tenable in the University of Hawaii, Honolulu, Hawaii, U.S.A. (1996)
- (iv) ZONTA Award for Women of Achievement for Education (2006) awarded by the ZONTA Club of Colombo, Sri Lanka
- (v) Ruhuna University Vice-Chancellor's Award for the Highest Grant Recipient (2004 & 2007)

- (vi) Felicitated as a Founder member and the treasurer and an active member of Sri Lanka Association for Fisheries and Aquatic Resources in 2012
- (vii) Presidential award for Scientific publication in Cited International journals (2013)

Contributions to National Fisheries and Marine Science Education

- (i) Prepared the syllabus for Fisheries Biology to offer it as a major subject for Parts I, II and III of the Bachelor of Science (General) Degree Programme and offered it with effect from the 1998 Academic Year
- (ii) Prepared the syllabus for Fisheries Biology to offer it as a major subject for Parts I & II of the Bachelor of Science (Special) Degree Programme and offered it with effect from the year 2000
- (iii) Prepared the proposal for the Faculty of Fisheries and Marine Sciences & Technology consisted of three departments; Viz. Dept. of Fisheries & Aquaculture, Dept. of Limnology and Dept. of Oceanography & Marine Geology, and instrumental in preparing a major part of the syllabi for the three departments. Faculty was established with effect from 1st January 2005 and First Batch of undergraduates was enrolled in November 2006.
- (iv) Served as one of the members appointed to develop the curriculum for the National Institute for Fisheries and Nautical Engineering (NIFNE)
- (v) Serving as a member of the committee appointed by the Senate of the University of Jaffna for the establishment of a Faculty of Fisheries and Marine Resources (from 2015 to date)
- (vi) Introduced the course unit on Fisheries Oceanography for the B.Sc. in Fisheries and Marine Sciences at Faculty of Fisheries and Marine Sciences & Technology, University of Ruhuna.(2018).

Research Grants and other Grants

- (i) International Developmental Research Center grant for histological studies on gonadal development of sex-reversed and normal females of *Oreochromis niloticus* and effects of different feeds on gonadal development of the same. (7,500/= \$ CAD, August, 1986 -1989).
- (ii) NARESA and SAREC of Sweden Research Grants 1989/95 Coastal Ecology Research Programme to study the recruitment and distribution of *Anguilla bicolor* and *Anguilla nebulosa* in Sri Lanka estuaries and river systems. (1989 for 1991 **Rs 1.2 million**). This grant is extended until 1995 (**Nearly Rs 6 million for 1994**).

- (iii) Ruhuna University Research grant of Rs.75,000/- to study the "Gonadal development cycle in selected important marine food fish caught in the southern coastal region of Sri Lanka. (RU/SF/RP/93/04)
- (iv) SAREC Grant of **Swedish Kr (SEK) 2,87,000/-** to study the "Pelagic Productivity, plankton, fish population dynamics, small pelagic fisheries and fishery resources in the coastal lagoons of Southern Sri Lanka". [1995 to 1997
- (v) NARESA Grant of Rs **6,69,000 /-** to study the "Biology, ecology and breeding in captivity of endemic ornamental fish in river systems of Southern Sri Lanka". (1995 to 1997)
- (vi) Coordinator from the Dept. of Fisheries Biology for the ADB personnel Development Project and obtained **US \$ 300,000 (US \$140,152 in 1998, US \$81,046 in 2000 & US \$75,000 in 2002)** which helped 3 probationary Lecturers (Ms. H.B. Asanthi, Mr. P.B.T.P. Kumara, & Mr. D.A.S. Terrance) to complete research leading for postgraduate Degrees (Ph.D.) at University of Montpellier (France), University of Kalmar (Sweden) & Qunsland University of Technology (Australia) respectively.
- (vii) SAREC grant of **Rs 7.1 million** for enhancing the capacity of the Dept. of Fisheries Biology, University of Ruhuna to carry out marine environmental research (on coral reefs, marine zooplankton and coastal pollution).1998 to 2000
- (viii) Sida/SAREC Grant for **SEK 3,310,000/- (nearly 30 million rupees)** under the SAREC Marine Science Programme for capacity building in the Dept. of Fisheries Biology to carry out marine research (from 2000 to 2003)
- (ix) Sida/SAREC grant for **SEK 4,250,000/-** (under the SIDA/SAREC Marine Science Programme for capacity building in the Dept. of Fisheries Biology to carry out marine research (from 2006 to 2008)
- (x) CIDA post-tsunami rehabilitation grant to work on marine-based ecosystems for **Canadian \$ 172,380 (Rs. 10.34 million 1 CAD = Rs 60)**
- (xi) Coordinator for postgraduate programme on Aquaculture under the NUFU-University of Ruhuna link programme (until 2008), and prepared a project proposal which helped Mrs. Anusha Dhanasiri, (Probationary Lecturer) to register for a Ph.D. at Bodo University College, Norway. (approximately 1/4th of NOK3,270,987)

Fellowships, Positions held in professional Associations

National Academy of Science of Sri Lanka

- Elected as a Fellow with effect from 16th August 2013

Sri Lanka Association for the Advancement of Science

- Member of the Science and Technology Advisory Committee (2020, 2021)
- Member of the General Research Committee(2019, 2020)
- Chair person Board of Trustees (2016 & 2017)
- Chairperson Ethics Committee(2014)
- General President (2013)
- General President Elect 2012
- Chair Person of the Science Education Committee (2011)
- Chairperson of Committee for Popularisation of Science of SLAAS (2005)
- Vice-Chairperson of the Committee for popularisation of Science (2004).
- Member of the Council (2003, 2004, 2006, 2007, 2012 to date)
- Member of the Committee for popularisation of Science (2003 to 2008 & 2013)
- President Section D (Biology, Natural Resources, Fisheries)(2003)
- Vice-President of SLAAS Section D (Biology, Natural Resources, Fisheries) (2002)
- Member of the Ethics Committee (2002 to 2011, 2015-2017).
- Secretary Section D (Biology, Natural Resources, Fisheries) (2000)
- Committee member of the Section D (1998 to 2004)
- Life Member (From 1994).

Sri Lanka Association for Fisheries and Aquatic Resources

- Founder Treasurer
- Life member
- Member of the Executive committee (2020, 2021)

Sri Lanka Small Scale Fisheries Forum

- Founder member and the Treasurer

Asian Fisheries Society

- Member (From 1988 to 2006).

Fisheries Society of the British Isles

- Member (1983 -1987)

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| Other Experience |
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Postgraduate Research Supervision :-

- Appointed as a “**Recognised Supervisor**” of **Brunel University** in order to co-supervise research students registered for Degrees at Brunel University, Middlesex, U.K. (2000)
- Supervised following research work of postgraduate students reading for M.Phil. & Ph.D. Degrees

- (i) Recruitment and distribution of *Anguilla bicolor* and *Anguilla nebulosa* in southern Sri Lankan river systems and changes in their morphometric features and body constituents during development. (M.Phil).
- (ii) Studies on gonadal development and growth related aspects of *Anguilla bicolor* and *Anguilla nebulosa* and studies on their genetic relationships. (M.Phil)
- (iii) A study on pollutants in a lagoon and potential application of semiconductors for their degradation and removal. (M.Phil)
- (iv) Studies on physico-chemical parameters productivity and zooplankton population dynamics in two coastal lagoons of Southern Sri Lanka. (M.Phil) (2015)
- (v) Study of the beach seine fishery and its contribution to the coastal fish production in Sri Lanka with special reference to Southern and North-western Provinces of Sri Lanka (2003). (M.Phil.)
- (vi) Effects of heavy metals on fishery and edible fish in Sri Lanka (2004). (Ph.D.)
- (vii) Determine the growth efficiency of multi species coral assemblages as tool of transplantation for restoring degraded coral reefs. (2008) (Ph.D.)
- (viii) Diversity and distribution of reef forming organisms and other associated benthic organisms in selected reef sites of Southern Sri Lanka and possible impacts on them from anthropogenic activities. (M.Phil.)
- (ix) Formulating feed for post larvae of *Macrobrachium rosenbergii* (M.Phil) (2011)

Services as a member of the Editorial Boards of Scientific Publications

- (i) Journal of the National Aquatic Resources and Research Agency
- (ii) Sri Lanka Journal of Aquatic Resources

Services as an evaluator for Research Grant Applications

- (i) National Science Foundation (NSF) Sri Lanka
- (ii) National Research Council (NRC) of Sri Lanka

Services as a referee for research work published in refereed journals and Presented at Professional and academic Fora

- Journal of National Science Foundation (NSF) of Sri Lanka
- Journal of the Postgraduate Institute of Agriculture
- Journal of Faculty of Agriculture Ruhuna
- Journal of National Aquatic Resources and Research Agency (NARA)
- Abstracts submitted for Annual Sessions of Sri Lanka Association for Advancement of Science (SLAAS)

- Abstracts submitted for annual Sessions of Sri Lanka Association for Fisheries and Aquatic Resources (SLAFAR)
- Abstract submitted to Academic Sessions of the University of Ruhuna, Sri Lanka.
- Abstracts submitted to the Annual Sessions of the Faculty of Science University of Ruhuna
- Member of the Scientific Committee of Annual Scientific Sessions, SLAFAR 1998

National Services as a Consultant/Expert

- Project coordinator from University of Ruhuna for "Identification and mapping of the environmentally sensitive areas in the coastal zone of the Hambantota District" under the Hambantota integrated coastal zone management project (HICZMP) of the Southern Development Authority of Sri Lanka. (1998). Rs 5,95,000/-.
- Member of the Committee appointed by the Minister of Science & Technology to study the impacts of the Sethu Samudram Canal Project (September 2004)
- Member the team appointed to Represent Sri Lanka for the second round of talks held in New Delhi, India on the Sethusamudram Canal Project (2005)
- Rapid Biodiversity survey in the Marine Biosphere in order to declare it as a Marine Biosphere Reserve. Funded by IUCN (Rs 600,000/-) February- March 2010
- Coastal Sector Expert of the Technology Needs Assessment (TNA) for Climate Change Project of the Ministry of Environment under the funding from UNEP (from August 2011 to date)
- Member of the expert committee appointed by the Prime Minister to evaluate the Colombo Port City Project 2015
- Fisheries Expert for preparation of the Western Province Megapolis Development Project Proposal (2015)
- Member of the committee appointed for establishment of the Faculty of Fisheries and Aquatic Technology, University of Jaffna, Sri Lanka (October, 2015 to date)
- Chairperson of the Progress Review Committee appointed by the Director General Petroleum Resources Development Secretariat (PRDS) to Monitor Marine Environmental Baseline Survey within EEZ of Sri Lanka (February 2016 to date)
- Member of the Committee of Experts appointed by the Director General of the Public Utilities Commission of Sri Lanka (PUCSL) for "Study on Actual Environmental Impacts of thermal Power Generation" (March 2016 to 2018)

- Member of the committee appointed by the Ministry of Environment to recommend environmentally friendly fish passes for Moragolla Mini-hydropower project (2017-2018)
- Member of the Expert committee appointed by the Marine Environmental Protection Authority (MEPA) to evaluate the impact of oil spill and fire from MT New Diamond ship on marine ecosystems & biodiversity (2020) and MV X-Press Pearl ship disaster (May 2021 to March 2022).
- Member of the Indian Ocean Rim Association (IORA) of the Sri Lankan Team (from 2022 to date)

Other Nationally Important Services

Memberships and positions held in Academic and Statutory Bodies & Committees at University of Ruhuna & other Higher Educational Institutes, and nationally important bodies

University of Ruhuna

- (i) Member of the Science Faculty Board (from 1986 to 2005)
- (ii) Member of the Senate, elected by the Faculty Board of Science (May 1990 to February 1991) until appointed as the Head/Dept. of Fisheries Biology.
- (iii) Member of the Senate from February 1991 to 2005 as the Head/Dept. of Fisheries Biology.
- (iv) Member of the Senate from 2005 to date, as the Dean Faculty of Fisheries and Marine Sciences & Technology (2005-2008) and as the Senior Professor and Professor of Fisheries Biology (2008 to date)
- (v) Member of the University Scholarship Committee representing the Faculty of Science (1995 to 1999)
- (vi) Member of the Governing Council appointed by the senate among its members 2000, 2001(until May) and 2003 to 2005
- (vii) Editor of the News Letter of the University of Ruhuna. (2001).
- (viii) Deputy Director/Technical of Local Technical Secretariat of IRQUE Project (2005)

- (ix) Served in Sub Committees appointed by the Council and the Senate to formulate criteria to offer university houses to academic staff, allocation of funds for the Vice-chancellor's fund, Dean's fund, Faculty fund etc.; Preparation of Examination By-laws of different faculties and marking schemes for Vice-chancellor's awards and for student disciplinary actions etc.

University Grants Commission

- (i) Member of the Standing Committee on University Staff Services Condition (from September 1992 to 1999)
- (ii) Member of the Standing Committee on Science, University Grants Commission from 2006 to March 2008

National Research Scientific Agency and (NARESA) & National Science Foundation (NSF)

- (i) Member of the Research and Advisory Committee of the Coastal Ecology Programme (From September 1993 to 1996).
- (ii) Member of the Advisory Committee on NARESA/SAREC Coastal Ecology Programme (1994 to 1996)
- (iii) Member of the Working Committee on Natural Resources from 1999, 2001 to 2002.
- (iv) Member of the Committee on Biological Sciences from 2002 to August 2003.
- (v) Member of the Committee for Popularisation of Science (CPS) and delivered a lecture on the impact of tsunami at a Science Day Programme for school children in Hambantota District organised by the CPS of NSF (2005)
- (vi) Member of the Committee on Marine Sciences (2006 & 2007)
- (vii) Member of the National Committee on Oceanography & Marine Sciences (from April 2008-2012)
- (viii) Member of the Board of Management National Science Foundation (NSF) elected from the Council of Sri Lanka Association for the Advancement of Science (elected on the 27th September 2013 to 2014)
- (ix) Member of the Committee on Oceanography and Marine Resources (2013- 2016)
- (x) Chairperson of the Committee on Oceanography and Marine Resources (2015)
- (xi) Chairperson of the committee to prepare Policy for Basic Science Research (2018)

National Aquatic Resources and Research Agency (NARA)

- (i) Member of the Governing Board of **Natural Aquatic Resources Agency (NARA)** 1995,1996, 1997 to 2001, 2004 to June 2005
- (ii) Member of the Committee on Integrating Environment and Development Policy on Coastal and Marine environments under the Ministry of Forestry & Environment and Ministry of Fisheries & Aquatic Resource Development (1998).
- (iii) Member of the Committee appointed to restructure the Oceanography Division of NARA (Sept. 2004)
- (iv) Member of the Scientific & Technical Evaluation Committee of Research presentations at NARA (2004)

National Institute of Fisheries and Nautical Engineering (NIIFNE)

- (i) Member of the Governing Council when it was under the Ministry of Fisheries and Aquatic Resource Development. And under the Ministry of Youth Affairs (From 2002 to April 2004 & October 2008 to date)
- (v) Member of the **Academic Board** under the Ministry of Fisheries and Aquatic Resource Development. (From 2002 to 2005)
- (vi) Member of the Board of Study on Fisheries Biology under the Ministry of Fisheries and Aquatic Resource Development. (From 2002 to 2005)

International Union for Conservation of Nature (IUCN) Sri Lankan Branch

- (i) Chairperson of the Session I of the “National Workshop on the Current Status of Marine Fauna of Sri Lanka” held in the Ministry of Environment and Natural Resources on the 17th August 2004 and made a presentation on the Ecology of Reef Fish in Sri Lanka and relevant research gaps during the Session II of the same workshop organised by the IUCN of Sri Lanka.

Centre for Agrarian Research Policy (CARP)

- (i) Member of the National Committee on Livestock, Aquaculture & Fisheries of Sri Lanka Council for Agricultural Research Policy (from 2011)

National Science and Technology Commission (NASTEC)

- (i) Member of the Governing Board of National Science and Technology Commission (NASTEC) from 1st May 2013 to 2018
- (ii) Participated the BICOST meeting at which 10 thrust areas for National Scientific Research relevant to development of Sri Lanka and represented the committee appointed for Agriculture and Fisheries sector.
- (iii) Involved in the preparation of the National Research and Development Framework (NRDF) which was presented to H.E. the President Hon. Maithripala Sirisena on 3rd May 2016 at a special meeting held at the Presidents House and made a power point presentation on “Food and Nutrition” at that meeting in the presence of the Minister of Science, Technology and Research.
- (iv) Chairperson of the committee appointed to formulate the policy document for Basic Sciences Research and a member of the committee appointed to amend the existing Science, Technology & Research Policy (2017 to date)

Ministry of Fisheries and Aquatic Resource Development

- (i) Participated in the three day programme for preparation of Fisheries Policy, which was held at Mount Lavinia Hotel from 10th to 12th January 2017 in collaboration with representative from the Norwegian Government.

Sri Lanka Small Scale Fisheries Forum (SLSSFF)

- (i) Founder member and the Treasurer (2018 to date)

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| Publications |
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Book Chapters:

- (i) Niall Bromage and **Ruchira Cumararatunga** (1988). Chapter 2 - Egg production in the rainbow trout. In, "Recent Advances in Aquaculture", Vol. 3, James F. Muir and Ronald J. Roberts (eds.). 63-138. Croom Helm, London. 420p.
- (ii) J.R.C. Springate, N.R. Bromage and **P.R.T. Cumararatunga**, (1985). The effects of different rations on fecundity and egg quality in the rainbow trout, *Salmo gairdneri*. In "Nutrition and feeding in fish", C.B. Cowey, A.M. Mackie and J.G. Bell (eds). 371-391. Academic Press, London. 489p

Publications (Full Paper) in learned journals and other Scientific publications:

- (i) S.S. De Silva, **P.R.T. Cumararatunga** and C.D. De Silva. (1980). Food, feeding ecology and morphological features associated with feeding in four co-occurring cyprinids (Pisces : Cyprinidae). Netherlands Journal of Zoology, 30; 54-73 .

- (ii) S.S. De Silva, P. Maitipe and **P.R.T. Cumararatunga**. (1984). Aspects of the biology of the euryhaline Asian cichlid *Etroplus suratensis*. *Env. Biol. Fish*, 10; 77-87 .
- (iii) **P.R.T. Cumararatunga** and H. Thabrew. (1990) Effects of a legume (*Vigna catieng*) substituted diets on the ovarian development of *Oreochromis niloticus*. In "The current status of fish nutrition in aquaculture", M.Takeda and T. Watanabe (eds.). pp 333-344. Laboratory of Fish, Tokyo University of Fisheries, Japan. 469 p.
- (iv) **P.R.T. Cumararatunga** and K.L.G.P. Mallika (1991). Effects of different protein levels in diets substituted with different levels of *Vigna catieng* (Leguminous plant) on gonadal development of female and male *Oreochromis niloticus* (L.) In "Fish Nutrition Research in Asia, S.S. De Silva (ed.). 125-133. Asian Fisheries Society Special Publication No. 5, 205 p. Asian Fisheries Society, Manila, Philippines.
- (v) **P.R.T. Cumararatunga**, A.S.K. Ranawickrama, H.Wickstrom & K.V.S. Vithanage (1995). Factors affecting the distribution of *Anguilla bicolor bicolor* McClelland and *Anguilla nebulosa nebulosa* McClelland (Anguilliformes; Anguillidae) in a river system in Sri Lanka. *Asian Fisheries Science* **10** (1997):9-21. Asian Fisheries Society, Manila, Philippines.
- (vi) P.A.T. Fernando & **P.R.T. Cumararatunga** (2002) Status of the beach seine fishery in the Hambantota District during 1995-1997. *Journal of NARA of Sri Lanka*.
- (vii) C.H. Fernando, R.R.A.R. Shirantha, M.J.S. Wijeyaratne and **P.R.T. Cumararatunga** (2002). Tilapias and indigenous bio diversity in Sri Lanka. *Sri Lanka J. Aquat. Sci.* 7(2002): 1:22.
- (viii) Terney Pradeep Kumara P.B., **Cumarathunga P.R.T.**, Olof Linden (2005) Present status of Sea Cucumber fishery in Southern Sri Lanka: A resource-depleted industry. *SPC Beche De mer Information Bulletin* 22: 24-29. <http://www.spc.org.nc/coastfish/News/BDM/22/Terney.pdf>
- (ix) Terney Pradeep Kumara P.B., **Cumarathunga P.R.T.**, Olof Linden (2005) Bandaramulla Reef of southern Sri-Lanka: Present status and impacts of Coral Mining - A case study. (CORDIO status report 2005: 233-242) http://www.iucn.org/themes/marine/pdf/CORDIO2005_intro.pdf
- (x) Terney Pradeep Kumara, P.B., **P.R.T. Cumararatunga** and David Souter Spatio-Temporal patterns of coral larval settlement in three selected reefs in Southern Sri Lanka.. <http://www.wmtc2006.com/wmtc2006programmefinal.pdf>
- (xi) W.A.F.C. Perera & **P.R.T. Cumararatunga** (2009). Feeding Ecology, reproductive biology and aspects related to selected marine ornamental fish,

Abudefduf vaigiensis. Proceedings of the Annual Academic Sessions of University of Ruhuna . Proceedings of the Sixth Academic Sessions, University of Ruhuna, 2009. Vol 6 pp 50-57

- (xii) Granéli E, Vidyarathna N.K., Funari E., **Cumaranatunga P.R.T.** and Scenati, R. (2011). Can Increases in Temperature Stimulate Blooms of the Benthic Dinoflagellate *Ostreopsis ovata*?. **Harmful Algae.** www.doi:10.1016/j.hal.2010.09.002
- (xiii) **Cumaranatunga P.R.T. (2011)**. Impacts of Climate Change on Coastal & Marine Fisheries Industry of Sri Lanka. (Key note Address at the Session on Fisheries & Livestock) Proceedings of the **International Conference on the Impact of Climate Change on Agriculture (ICICCA 2011)**. organized by the **Faculty of Agriculture, University of Ruhuna** in collaboration with the Sri Lanka National Commission for **UNESCO**. Dec 20th 2011
- (xiv) **Cumaranatunga, P.R.T. (2013)**. Impacts of fishery related activities on coastal environmental pollution and possible solutions. Proceedings of the First National Symposium on Marine Environment, 27th to 28th August 2013, Bentota, Sri Lanka. pp 46-60
- (xv) **Cumaranatunga, P.R.T. (2014)**. Adaptation and Mitigation Strategies for Climate Change Ensuring Sustainable Socioeconomic Development (General President's Address). Proceedings of the 70th Annual Sessions of the Sri Lanka Association for the Advancement of Science, Part II: Presidential Addresses, 2013. pp 1-15.
- (xvi) DMA Edirisinghe , **PRT Cumaranatunga**, K Radampola & PT Kirindearachchige (2013). Analysis of proximate composition and consumer preference of three reef fish species. *Sri Lanka J. Aquat. Sci.***18(2013): 27-36**. DOI: <http://dx.doi.org/10.4038/sljas.v18i0.7037>
- (xvii) WAA Upasantha Kumara , PBT Pradeep Kumara & **PRT Cumaranatunga** (2015). Spatial differences in the growth rates of *Pocillopora damicornis* associated with sedimentation rate and light intensity at Polhena patchy reef, southern Sri Lanka. *Sri Lanka J. Aquat. Sci.***20 (1) (2015): 47-58** DOI:<http://doi.org/10.4038/sljas.v20i1.7455>
- (xviii) S. Weerakkody and **P.R.T. Cumaranatunga** (2016). Effects of dried, powdered carrot (*Daucus carota*, Family: Apiaceae) incorporated diet on the skin and flesh colouration of *Catla catla*, Family: Cyprinidae). *Sri Lanka J. Aquat. Sci.* **.21 (2) (2016): 95-103**. DOI:<http://doi.org/10.4038/sljas.v21i2.7505>
- (xix) Sanuja, R.G., Kalutharage, N.K. & **Cumaranatunga, P.R.T.,** (2017). Selection of the most suitable crustacean exoskeleton waste from fish processing industry to isolate chitosan. *Sri Lanka Journal of Aquatic Sciences.* **22(1), pp.45–53**. DOI: <http://doi.org/10.4038/sljas.v22i1.7516>

- (xx) **P.R.T. Cumararatunga** (2017) FISH PROCESSING WASTE: A RESOURCE UNUTILISED OR UNDERUTILISED IN SRI LANKA . Golden Jubilee Commemorative Volume of the University of Kelniya
- (xxi) Titus, L.P., Deepananda, K.H.M.A. & **Cumararatunga, P.R.T.**, (2017). Physicochemical environment of Malala Lagoon in Southern Sri Lanka. *Sri Lanka Journal of Aquatic Sciences*. 22(2), pp.129–139. DOI: <http://doi.org/10.4038/sljas.v22i2.7537>
- (xxii) Herath, H.M.G.K., Kalutharage, N.K. and **Cumararatunga, P.R.T.**, 2020. Solutions to an alien species invasion from aquarium aquaculture: Isolation and characterization of acid soluble collagen from sailfin catfish, *Pterygoplichthys disjunctivus* (Weber, 1991) in Sri Lanka. *Sri Lanka Journal of Aquatic Sciences*, 25(1), pp.19–32. DOI: <http://doi.org/10.4038/sljas.v25i1.7573>

Short communications

- (i) Wickramasinghe, B.R. and **Cumararatunga, P.R.T.**, 2018. Length-based variations in deposition of chitin in the exoskeleton of *Penaeus monodon* and *P. indicus*. *Sri Lanka Journal of Aquatic Sciences*, 23(1), pp.127–132. DOI: <http://doi.org/10.4038/sljas.v23i1.7553>

Other Research publications:

Scientific Abstracts edited (International):

- (i) Niall Bromage and **Ruchira Cumararatunga**. (1987). Oocyte development in the rainbow trout with special reference to vitellogenesis and atresia. (Abstract) In the proceedings of the Third International Symposium on Reproductive Physiology of Fish, held in St. John's Newfoundland, Canada. D.R. Idler, L.W. Crim and J.M. Walsh (eds). 194 .
- (ii) H.M.K.K. Pathirana, R.A. Maithreepala and **P.R.T. Cumararatunga**, (1997). Accumulation of heavy metals in fin-fish in a lagoon of southern Sri Lanka. Proceedings of the Fourth International conference on Biogeochemistry of Trace Elements, I.K. Ishkandar, S.E. Hardy, A.C. Chang and G.M. Pierzynski (eds.), Berkeley, California, U.S.A. 87-88.
- (iii) Coral transplantation: an additional tourist attraction in Polhena reef of Southern Sri Lanka. **Terney Pradeep Kumara P.B.**, Linden O., Souter D.W., **Cumararatunga P.R.T.** Proceedings of 10th International coral reef symposium 2004, Okinawa, Japan. <http://wwwsoc.nii.ac.jp/jcrs/icrs/Oral0628.pdf>
- (iv) **Terney Pradeep Kumara P.B., Cumararatunga P.R.T., Souter D.W** (2006). Spatio-temporal pattern of coral larval settlement in three selected reefs in Southern Sri Lanka., World Maritime Technology Conference, London. <http://www.wmtc2006.com.wmtc2006prgrammefinal.pdf>

- (v) Edna Graneli, Nayani K. Vidyarthna, Enzo Funari, **P.R.T. Cumaratunga** and Raffaelli Scenati (2009). Expansion of the Toxic Benthic Dinoflagellate *Ostreopsis ovata* and Global Warming. Annual meeting of Swedish Society for Marine Sciences.

Abstracts edited (Regional):

- (i) H.M.K.K.Pathirana, R.A. Maithreepala and **P.R.T. Cumaratunga** (1996). Bio-accumulation of heavy metals in edible fish in a lagoon of Southern Sri Lanka. (Abstract) Proceedings of the Regional Workshop on "Research for the Management of Coastal Resources in the Tropics", SIDA/SAREC/NARESA, Colombo, Sri Lanka.
- (ii) **P.R.T. Cumaratunga**, A.S.K. Ranawickrama and K.V.S. Vithanage (1996). Fish resources in two coastal lagoons of Southern Sri Lanka. (Abstract) Proceedings of the Regional Workshop on "Research for the Management of Coastal Resources in the Tropics", SIDA/SAREC/NARESA, Colombo, Sri Lanka.
- (iii) L.P. Titus, **P.R.T. Cumaratunga** and P.B. Amarasinghe (1996). Diversity of zooplankton in a coastal lagoon of Southern Sri Lanka. (Abstract) Proceedings of the Regional Workshop on "Research for the Management of Coastal Resources in the Tropics", SIDA/SAREC/NARESA, Colombo, Sri Lanka.

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- (i) **Ruchira Cumaratunga**, Niall Bromage and John Springate. (1985). Atresia in the rainbow trout (*Salmo gairdneri*). (Abstract -A1.20). In "Fish Culture" European Society for comparative physiology and Biochemistry.
- (ii) **P.R.T. Cumaratunga**, H.Wickstrom, A.S.K. Ranawickrema and K.V.S. Vithanage. (1992). Biology and distribution of *Anguilla bicolor* and *Anguilla nebulosa* in the southern river systems of Sri Lanka. (Abstract OFB-02) Third Asian Fisheries Forum, p 68.
- (iii) **P.R.T. Cumaratunga**, A.S.K. Ranawickrama, H.Wickstrom & K.V.S. Vithanage. (1994). Distribution and recruitment of *Anguilla bicolor bicolor* McClelland and *Anguilla nebulosa nebulosa* McClelland in the river systems of Southern Sri Lanka. (Abstract) , In "Fishes and their environment". Proc. 8th Congress of the European Ichthyological Union, Oviedo, Spain. p30.
- (iv) A.S.K. Ranawickrama, **P.R.T. Cumaratunga** and H.Wickstrom (1994). Changes in body constituents of *Anguilla bicolor bicolor* McClelland and *Anguilla nebulosa nebulosa* McClelland during their development. (Abstract) , In "Fishes and their environment". Proc. 8th Congress of the European Ichthyological Union which was held in Oviedo. p40.
- (v) K.V.S. Vithanage, **P.R.T. Cumaratunga** & H.Wickstrom. (1994).

Relationship of size of *Anguilla bicolor bicolor* McClelland and *Anguilla nebulosa nebulosa* McClelland to the size of the otolith during their development. (Abstract) , In "Fishes and their environment". Proc. 8th Congress of the European Ichthyological Union, Oviedo, Spain. p46.

- (vi) **P.R.T. Cumaranatunga**, A.S.K. Ranawickrama, H.Wickstrom & K.V.S. Vithanage (1995). Factors affecting the distribution of *Anguilla bicolor bicolor* McClelland and *Anguilla nebulosa nebulosa* McClelland in a river system in Sri Lanka. (Abstract-OFB-02) 4th Asian Fisheries Forum, Beijing, China. p68.
- (vii) H.M.K.K. Pathirana, R.A. Maithreepala, **P.R.T. Cumaranatunga** & G. Bandarage (1995). Heavy metal pollution in a lagoon in the southern region of Sri Lanka. Third International Conference on the biogeochemistry of trace elements. 15-19 May 1995, Paris, France.
- (viii) **P.R.T. Cumaranatunga** and P.B. Amarasinghe (1997). Present status and the bycatch of tuna fisheries of Southern Sri Lanka. (Abstract) Proceedings of the 48th tuna conference, Lake Arrowhead, California, U.S.A.
- (ix) **P.R.T. Cumaranatunga** and M.N.P. Perera (1997). Breeding in captivity and survival of fry of *Puntius nigrofasciatus* (Black ruby barb) (Pisces: Cyprinidae) : An endangered ornamental fish endemic to Sri Lanka. **SLAAS** International symposium of 53rd Annual Sessions of SLAAS special publication.
- (x) **P.R.T. Cumaranatunga** and K.V.S. Vithanage (1998). Use of eye diameter as a maturity index for *Anguilla bicolor bicolor* McClelland and *Anguilla nebulosa nebulosa nebulosa* McClelland (Pisces; Angillidae). Presentation at 5th Asian Fisheries Forum. Chiang Mai, Thailand, November 1998.
- (xi) M.N.P. Perera and **P.R.T. Cumaranatunga** (1998). Conditions suitable for breeding in captivity of endangered ornamental fish, *Malpulutta kretseri* Deraniyagala (Ornate paradise fish) (Pisces; Belontiidae). Presented at 5th Asian Fisheries Forum. Chiang Mai, Thailand, November 1998.
- (xii) K.V.S. Vithanage, **P.R.T. Cumaranatunga** and H. Wickstrom (1998). Age determination of glass eels of *Anguilla bicolor bicolor* McClelland entering coastal lagoons of Southern Sri Lanka by using otolith growth increments. Presented at 5th Asian Fisheries Forum. Chiang Mai, Thailand, November 1998.
- (xiii) L.P. Titus, **P.R.T. Cumaranatunga** and P.B. Amarasinghe (1998). Diversity and physicochemical parameters affecting the abundance of microcrustacean zooplankton in a coastal lagoon of Southern Sri Lanka. Presented at 5th Asian Fisheries Forum. Chiang Mai, Thailand, November 1998.
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Southern Sri Lanka (Abstract). Proceedings of the Second International Conference on the Straits of Malacca, “Tropical Marine Environment: charting strategies of the millennium”. (15-18 October 2001, Penang, Malaysia) P11-1

- (xv) M.F.M. Fairoz, **P.R.T. Cumararatunga** and P.B. Amarasinghe (2001). Effects of Hydrological and climatic parameters of two fringing reef sites located in south-western coastal waters of Sri Lanka. Proceedings of the Second International Conference on the Straits of Malacca, “Tropical Marine Environment: charting strategies of the millennium” (abstract). (15-18 October 2001, Penang, Malaysia) P25-1
- (xvi) A.G. Bandaranayake, **P.R.T. Cumararatunga** & M.F.M. Fairoz (2003). Impact of Sedimentation and its organic matter content on two reef sites in the southern coastal belt of Sri Lanka. Presented at the Conference on Remediation of Contaminated Sediments held in Venice, Italy from 30th Sept. to 3rd Oct. 2003.
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- (ii) **P.R.T. Cumaratunga**, A.S.K. Ranawickrema, H.Wickstrom, and K.V.S. Vithanage (1995). Changes in morphometric characters and chemical composition during development in *Anguilla bicolor bicolor* McClelland and *Anguilla nebulosa nebulosa* McClelland. Proc. Sri Lanka Assoc. Advmt Sci. p 268.
- (iii) A.S.K. Ranawickrama and **P.R.T. Cumaratunga** (1996). Growth estimation of *Anguilla bicolor bicolor* McClelland in the Garanduwa Lagoon of Southern Sri Lanka. (Abstract) Second Annual Sessions of Sri Lanka Association for Fisheries and Aquatic Resources, Colombo, Sri Lanka. p 18
- (iv) **P.R.T. Cumaratunga** & K.V.S. Vithanage (1996). Histological changes associated with the development of *Anguilla bicolor bicolor* McClelland. (Abstract) Second Annual Sessions of Sri Lanka Association for Fisheries and Aquatic Resources, Colombo, Sri Lanka. p 19.
- (v) **P.R.T. Cumaratunga** and M.N.P. Perera (1998). Distribution of endemic ornamental fish in three river systems of southern Sri Lanka. (Abstract) - Presented as an oral presentation at the Fourth Annual Sessions of the Sri Lanka Association for Fisheries and Aquatic Resources (SLAFAR) 23-24 June 1998, Colombo, Sri Lanka, p 18.
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- (xviii) Dahanayake, K.K.D., **P.R.T. Cumaranatunga**., P.B. Amerasinghe, (2002) Abundance of Pomacentrid, Acanthurid and Cheatodontid fishes and common fishing methods in Polhena and Weligama reef lagoons in Southern Sri Lanka. Proceedings to the 58th Annual Session of the Sri Lanka Association for the Advancement of Science, December 2002,Colombo
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- (liv) R.G. Sanuja, **P.R.T. Cumaranatunga**, K.H.M.A. Deepananda and N.K. Kalutharage (2018). Qualitative and Quantitative Comparison of Chitosan Isolated from Pharaoh Cuttlefish (*Sepia pharaonis*) Bone, Indian Squid (*Loligo duvauceli*) Pen and Tiger Prawn (*Penaeus monodon*) Exoskeleton. Annual academic sessions of University of Ruhuna (Abstract) ISSN 2362-0412
- (lv) E.D.H. Chandrathilake, R.D.N. Wijesinghe, N.K. Kalutharage and **P.R.T. Cumaranatunga**, (2020). Fat content of liver and Fatty acid profile of the liver oil of Rough Trigger Fish (*Canthidermis maculata*) in Sri Lanka. Proceedings of the Sri Lanka Association for Fisheries and Aquatic Resources (SLAFAR). (Abstract 02).

Other contributions for publications:

Member of the site survey team of the Wetland Conservation Project of Sri Lanka and collected information for the following Wetland Site Reports published by the Central Environmental Authority (Sri Lanka)/Euroconsult (The Netherlands) 1994 March.

- (i) Wetland Site Report on Karagan Lewaya
- (ii) Wetland Site Report on Palatupana Maha Lewaya

Orations, Theme seminars, Keynote addresses, and other important communication

- (i) Delivered a lecture on Sustainable utilisation of marine resources for socioeconomic development of Sri Lanka at OPA Sri Lanka (2019)
- (ii) Delivered the Country Report on the current status of tuna fisheries of Sri Lanka at the North Indian Ocean Tuna Conference held in Katunayake Sri Lanka from 16th to 18th April 2012 and also delivered a communication on “The possible impacts of climate change on the tuna fishery industry of Sri Lanka”.
- (iii) Delivered the keynote lecture on “Impact of climate change on coastal and marine fisheries industry of Sri Lanka” at the Session on Fisheries & Livestock of the International Conference on the Impact of Climate Change on Agriculture (ICICCA 2011)
- (iv) Delivered a lecture on Marine Living Resources for Economic Development of Sri Lanka " at the Theme Seminar of the Annual Sessions of Sri Lanka Association for the Advancement of Science, under the theme “Understanding, Harnessing and Conserving the Ocean around Sri Lanka " on 06th December 2011 at Sri Lanka Foundation Institute (SLFI) Colombo, Sri Lanka.
- (v) “Possible impacts of radioactive material leakage from Fukushima power plant to Sri Lanka” (2011). This was made on an invitation made by the Chairman of the Atomic Energy Authority of Sri Lanka

- To Staff of Atomic Energy Authority/Sri Lanka
- To Staff of Marine Environment Protection Authority (MEPA)
- (vi) Impacts of climate change on the coastal & Marine Ecosystems and Fisheries of Sri Lanka (2011)
 - To Marine Environmental Protection Authority (MEPA)
 - To Staff of the Galle, Matara and Hambanthota Districts at two workshops conducted by the SLAAS Section D in collaboration with the Central Environmental Authority of Galle & Matara.
- (vii) Organised a training workshop for the officers of the Navy at Navy Head Quarters on “Security of Marine Resources of Sri Lanka” and delivered a lecture on the Importance of marine & coastal biodiversity of Sri Lanka on an invitation made by the Commanderr of Navy on an directive given by the Defence Secretary. (2010)
- (viii) Conducted the Susan George Pulimood Memorial Oration at Visakha Vidyalaya Colombo, on “ Are we using our marine resources in a sustainable manner?”. This is a prestigious opportunity given to distinguished, past students of the Visakha Vidyalaya Colombo.(2009)
- (ix) Presentation was made on “Ecology of Reef fish in Sri Lanka and related research gaps” at the National workshop on the current status of Marine Fauna of Sri Lanka held in Colombo Sri Lanka (17 August 2004). Organized by IUCN Sri Lanka
- (x) Conducted a Lecture on the “Possible impacts of Sethusamudram Ship Canal Project on Fisheries & Marine Biodiveristy of Sri Lanka” at a workshop held by the Environmental Committee of SLAAS. (Sept. 2004)
- (xi) Delivered the following lectures as a Resource Person under the Lecture series conducted for the Certificate Course conducted by the Our Nation & the Sea Initiative (ONS) of the Indian Ocean Marine Affairs Commission (IOMAC) at BMICH, Colombo (October 2004)
 - Conservation of Marine Biodiversity in the Indian Ocean
 - Ecology of Reef Fish
- (xii) Served as a Resource Person and delivered a lecture on “Breeding Techniques of Ornamental Fish” at the seminar on “Ornamental fish Breeding” conducted to fish farmers, in collaboration with the Institute of Biology at Water World, Aquarium in Biyagama, Kelaniya on the 30th of October 2004
- (xiii) Delivered oral communications on the impact of Sethusamuram Canal Project on the Marine Biodiversity at meetings held by following professional bodies during 2004
 - a. Organisation for Professional Associations (OPA)
 - b. Institute of Engineers Sri Lanka (IESL)

- (xiv) Served as a Resource Person at the Stallite Programme organized by the National Science Foundation (NSF) on world Science Day at Hungama Wegaba Maha Vidyalaya on 6th August 2005 and delivered a lecture on How to minimize impact from Natural Disasters.
- (xv) Delivered a lecture on the “Impacts of Tsunami & post-tsunami activities on the coastal resources of Sri Lanka” at a workshop organised by the SLAAS Science and Technology Committee (STAC) & the Ministry of Fisheries (2005)
- (xvi) Delivered an oral communication titled “Impact of Sethusamudram Canal Project on Marine Resources; A case from Sri Lanka”. At the ITDG workshop on “Impact of the Tsunami and the Sethusamudram on small scale fishery industry” 12th of August 2005, BMICH, Colombo
- (xvii) Conducted a course of lectures on Marine & Coastal Biodiversity to undergraduates at Faculty of Engineering at University of Katubedda (2005).
- (xviii) Served as the Acting Director and the Deputy Director/Technical of the IRQUE Project (until November 2005)
- (xix) Participated in the programme on World Ocean Day (WOD) -2006 organised by the Marine Pollution Prevention Authority (MPPA) on 8th June 2006 and delivered a lecture on coastal & marine ecosystems & biodiversity.
- (xx) Attended the World Tourism Women Leaders Summit at Bentota Beach Hotel on the 27th September 2007 and during the discussions, expressed views about coastal activities with a touristic attraction, in which women could actively involved.
- (xxi) Conducted an awareness programme on the Marine Biodiversity & its security for the Sri Lanka Navy and currently involved in the preparation of a more comprehensive programme on the same subject to Sri Lanka Navy (2010).
- (xxii) Organized a SIDA sponsored symposium on Coastal Zone Management concurrently with the inauguration of the Faculty of Fisheries & Marine Sciences & Technology on the 8th November 2006 and His Excellency Jerker Thunberg Ambassador for Sweden in Sri Lanka was the Chief Guest and delivered the presentation on “Responsibilities of Higher Education Institutes in Coastal Resource Management” other resource persons were Prof. Kapila Dahanayake, (Senior Professor of Geology University of Peradeniya), Prof. Olof Linden (World Maritime University, Sweden), Mr. M.A.R. Kularatne, (Chairman, Marine Pollution Prevention Authority of Sri Lanka) and Dr. D.E.M. Weerakone (Chairman, National Aquaculture Development Authority)”

- (xxiii) Delivered the Presidential Address on “Promotion of fish resource for development of Sri Lanka” as the President of Section D of Sri Lanka Association for the Advancement of Science (SLAAS) 2003, at the 59th Annual Sessions of SLAAS held at SLAAS Head Quarters, Colombo (13th December 2003).

Important International training and other programmes attended

- Visited Ghent University, Belgium to discuss the possibility of developing a collaborative graduate programme on Aquaculture with University of Ruhuna and had the opportunity to observe research programmes on culture of *Penaeus vannamei* farming (2018)
- SUSTAINABLE OCEAN INITIATIVE (SOI) CAPACITY-BUILDING WORKSHOP FOR EAST, SOUTH AND SOUTH-EAST ASIA. Guangzhou, China, 9-13 December 2013. Organised in collaboration with UNEP and Convention on Biological Diversity (CBD)
- International Advanced Training Workshop on Water and Soil Conservation” organized by the International Sediment Initiative (ISI) of UNESCO; International Research and Training Centre on Erosion and Sedimentation (IRTCES); Ministry of Water Resources, China, which will be held from 12th to 20th September 2011 in Beijing, China . made a presentation on the “Impact of Anthropogenic activities on selected Ecosystems in Sri Lanka”
- Attended the Post Tsunami Training Programme on Lessons to Learn held in Banda Aceh, Indonesia from 1st March to 7th March 2009 under the CIDA Tsunami Restoration programme of University of Ruhuna.
- Attended the United Nations Institute for Training and Research (UNITAR) workshop on “Sea & Human Security” held from 28th September to 3rd October 2008, in Hiroshima, Japan and made a presentation on “Post-tsunami coastal ecosystem rehabilitation programmes of Sothern Sri Lanka”.
- Attended the Advanced International Training Programme on “PUTTING IDEAS TO WORK– STRATEGIES FOR INNOVATION-LED SUSTAINABLE GROWTH which was organized by VINNOVA & funded by SIDA, in Stockholm, Sweden (November 19 – December 14, 2007)
- Attended the follow-up programme on “PUTTING IDEAS TO WORK– STRATEGIES FOR INNOVATION-LED SUSTAINABLE GROWTH which was organized by VINNOVA & funded by SIDA held in AIT Thailand from (29th March to 5th April 2008).
- Visited Tsunami restoration projects in Chennai, India under the CIDA Tsunami Restoration Project of University of Ruhuna (25th Oct. to 1st Nov. 2007)

- Visited the Dept. of Environmental Sciences at University of Kalmar, Sweden and delivered lectures on “Integrated coastal zone management in Sri Lanka” for M.Sc. students (27th January to 4th February 2002)
- Visited University of Hawaii on a Fulbright Senior Research Scholarship (From 31st October 1996 to 10th June 1997. During this period visited Washington DC to attend the Fulbright scholars conference, visited the Library of Congress and the Smithsonian Museum.
- International Swordfish conference held in the North Shore Hawaii (from 16th to 19th March 1997).
- Training programme on Biology of Eels and on electro-fishing organised by the Institute of Freshwater Research, Drottningholm, Sweden, funded by SAREC of Sweden under the SAREC/NARESA Coastal Ecology Programme of Sri Lanka. (From 1st June to 21st June, 1991). During this visit visited eel farms in Gothenberg and Marine Research Institute of Sweden and the Natural History Museum where the Linnaean Collection of organisms used for Scientific Nomenclature of organisms is kept. Visited Uppsala University and obtained a training on age determination of eels by using growth rings on their otoliths.
- Visited National University of Singapore to study its fisheries curriculum under a Commonwealth Academic Exchange Fellowship from 15th OCT. 1991 to 31st Oct. 1991.
- Visited University Pertanian Malaysia and its freshwater & Marine Research institutes under a Commonwealth Academic Exchange Fellowship to study the Fisheries & Aquaculture curriculum and research (16th July 1991 to 12th August 1991)
- International Course on Aquaculture and Extension, organised by the Ministry of Agriculture (CINADCO), State of Israel. (12th April to 7th June 1988)

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Date: 20th August 2022