

SH
207
M5D57
1993
c.2

Directory of the Network of Tropical Aquaculture Scientists

Compiled by
Roger S.V. Pullin
Mary Ann P. Bimbao



International Center for Living Aquatic Resources Management
Manila, Philippines



The Network of Tropical Aquaculture Scientists

ICLARM launched the Network of Tropical Aquaculture Scientists (NTAS) in July 1987 as an information network for individual scientists working on tropical aquaculture; especially those engaged on genetics, integrated agriculture-aquaculture farming systems and coastal aquaculture of tropical molluscs. Research scientists whose major work are in these fields are invited to join the Network. The NTAS provides a mechanism for exchange of research results and ideas among its members through correspondence and through its newsletter, *Aquabyte*: formerly a separate publication and incorporated in *Naga*, the *ICLARM Quarterly* from 1992.

Services of the Network also include assistance in information exchange and database searches, research

methods, data analysis and interpretation, and providing selective literature relevant to members' fields(s) of work. Membership of NTAS is free. Members also are listed in the free mailing list of *Naga*. The only expectation from members is that they should be willing to discuss their work and respond to enquires from fellow scientists.

All correspondence including applications for membership (with a brief outline of scientific background, any scientific publications and current research program) and contributions to *Aquabyte/Naga* should be sent to the NTAS Secretary, ICLARM, MCPO Box 2631, 0718 Makati, Metro Manila, Philippines.

Preface

This is the first full directory of the Network of Tropical Aquaculture Scientists (NTAS) published since the Network was established in 1987. The contents of this directory were culled from the responses of a questionnaire which was sent out to 579 members in April 1992. This directory comprises a list of those questionnaire respondents who wish to continue their membership plus newly enrolled members up to 30 May 1993. It also includes a detailed description of research interests, based on 90 descriptors provided in the questionnaire plus 15 descriptors given by members (Appendix 1).

Section I of this directory lists members in alphabetical order with their addresses and contact numbers (telephone, fax, telex and e-mail, if available) and their major and minor fields of research interests. Each member has been assigned a number which will be used in Sections II, III, IV, and V, where members are indexed by country, by institution, and by major and minor fields of research interests, respectively. To save space, international institutions in addresses were abbreviated, and telephone and fax numbers did not include the country and area/city codes. Instead, we

are providing separate lists of international institutional acronyms and country and area/city codes in Appendices 2 and 3, respectively.

This is the sixth year of the NTAS. The success of the Network, with its 472 members in 78 countries (Appendices 4 and 5) and with a regular publication of its newsletter has been due to the support of its members, which we would like to acknowledge with thanks. We hope that this directory will help members to identify their common interests, to enhance communication and to stimulate greater awareness among members concerning their research activities.

This directory was compiled with the hardworking assistance of the following ICLARM staff: Farlyz Villanueva (data programming), Teresita Lopez and Ma. Lucia Tungala (data management), and Christopher Bunao and Albert Contemprate for artwork and layout. We extend to them our grateful thanks.

Roger S.V. Pullin, NTAS Coordinator
Mary Ann P. Bimbao, NTAS Secretary
Manila, 1993

SH
207
MS 957
1993
e.2

JUL 19 1994

TABLE OF CONTENTS

Preface	i
Section I. List of NTAS Members	1
Section II. Country Index	27
Section III. Institutional Index	28
Section IV. Index of Major Fields of Research Interests	31
Section V. Index of Minor Fields of Research Interests	33
Appendix 1. Descriptors for NTAS Members	35
Appendix 2. Acronyms of International Institutions	36
Appendix 3. Country and Area/City Codes	37
Appendix 4. Map of NTAS Members	41
Appendix 5. Regional Distribution of NTAS Members	42
A. Regional Subtotals	42
B. Regional Distribution of Membership (%)	42

SECTION I

List of NTAS Members

001 Mr. Sotero M. Aban
 Instructor III, College of Fisheries
 Pangasinan State University, Binmaley
 Pangasinan 2417, Philippines
 Major: freshwater aquaculture, nutrition, water quality
 Minor: genetics, integrated farming systems, tilapias

002 Mr. Tereso A. Abella
 Research Biologist, Freshwater Aquaculture Center
 Central Luzon State University
 Muñoz, Nueva Ecija 3120, Philippines
 Tel/Fax: 3017323
 Major: biotechnology, genetics, quantitative genetics

003 Ms. Belen O. Acosta
 Research Associate, ICLARM
 MCPO Box 2631, 0718 Makati
 Metro Manila, Philippines
 Tel: 8189283; 8180466; 8175255 Fax: 8163183
 Tlx: 64794 ICLARM PN; 4900010376 ICL UI (USA)
 E-mail: (CGNET) ICLARM;
 (SCIENCENET) ICLARM.MANILA
 Major: freshwater aquaculture
 Minor: bivalves, tilapias

004 Dr. Oluwakayode A. Adekeye
 Deputy Director/Head of Fisheries
 Ministry of Agriculture and Natural Resources
 PMB 1383, Ilorin, Kwara State, Nigeria
 Tel: 220063
 Major: development, extension, policy
 Minor: conservation, environmental studies,
 information

005 Mr. Joseph A. Adetayo
 Senior Research Officer
 Nigerian Institute for Oceanography
 and Marine Research
 PMB 12729, Victoria Island, Lagos, Nigeria
 Tel: 617530
 Major: brackishwater aquaculture, crustaceans,
 induced spawning
 Minor: computer methods, hatchery technology,
 software

006 Dr. Innocent A. Adikwu
 Lecturer I, Department of Biological Sciences

Bayero University, PMB 3011, Kano, Nigeria
 Major: feed technology
 Minor: nutrition

007 Dr. J.F. Agnese
 Centre de recherches océanologiques
 BP V 18 Abidjan, Côte d'Ivoire
 Tel: 355014 E-mail: AGNESEOTORSTOM.ORSTOM.FR
 Major: genetic resources, population genetics,
 taxonomy
 Minor: catfishes, stock assessment, tilapias

008 Dr. Narayan K. Agrawal
 Aquaculture Engineer
 Orissa Shrimp Seed Production,
 Supply and Research Center
 Gopalpur-On-Sea Dist., Ganjam, Orissa, India
 Tel: 8165; 8160 Tlx: (0673) 209 OSSC IN
 Major: brackishwater aquaculture, engineering,
 hatchery technology
 Minor: farming management

009 Ms. Liza Q. Agustin
 Research Assistant, ICLARM
 MCPO Box 2631, 0718 Makati
 Metro Manila, Philippines
 Tel: 8189283; 8180466; 8175255 Fax: 8163183
 Tlx: 64794 ICLARM PN; 4900010376 ICL UI (USA)
 E-mail: (CGNET) ICLARM;
 (SCIENCENET) ICLARM.MANILA
 Major: physiology, population genetics
 Minor: freshwater aquaculture

010 Dr. Muchtar Ahmad
 Chief of Aquaculture Laboratory/Lecturer
 Fakultas Perikanan, University Riau
 Jl. Pattimura No. 9, Pekanbaru, Riau 28131, Indonesia
 Major: behavior, economics, integrated farming
 systems
 Minor: hatchery technology, marine aquaculture,
 physiology

011 Mr. Khan K.U. Ahmed
 Scientific Officer, Riverine Sub-station
 Fisheries Research Institute
 PO Box 8, Rangamati 4500, Bangladesh
 Tel: 2159

Major: limnology, population dynamics,
 stock assessment
 Minor: cages, phytoplankton, water quality

012 Dr. Mahfuzuddin Ahmed
 Technical Coordinator, ICLARM Bangladesh Office
 House 20, Rd. 9/A, Dhanmondi R/A
 Dhaka 1209, Bangladesh
 Tel: 812466; 817345 Fax: 884968; 883416
 Tlx: 642671 HBP BJ
 Major: economics, integrated farming systems,
 resource economics
 Minor: farming management, farming systems
 research, socioeconomics

013 Mr. Yemi Akegbejo-Samsons
 Consultant, PO Box 637, Akure, Ondo State, Nigeria
 Major: freshwater aquaculture
 Minor: brackishwater aquaculture,
 integrated farming systems

014 Ms. Jubaida N. Akhter
 Scientific Officer, Fisheries Research Institute
 Riverine Station, Baburhat, Chandpur 3602
 Bangladesh
 Tel: 3482; 3407
 Major: cages, nutrition, pens
 Minor: computer methods, feed technology,
 freshwater aquaculture

015 Mr. Syed Arif M. Al-Arabi
 Principal Investigator, Fisheries Research Institute
 Riverine Station, Baburhat, Chandpur 3602
 Bangladesh
 Tel: 3016; 3407
 Major: environmental impact, pollution, water quality
 Minor: genetics, integrated farming systems, pesticides

016 Dr. Ahmed H. Al-Harbi
 Institute of Natural Resources
 and Environmental Research
 King Abdulaziz City for Science and Technology
 PO Box 6086, Riyadh 11442, Saudi Arabia
 Tel: 401590 Fax: 4813611 Tlx: 4883555
 Major: diseases, immunology, pathology
 Minor: microbiology, parasites

- 017 Mr. Oluwasegun W. Alegbeleye**
Senior Research Officer
Nigerian Institute for Oceanography
and Marine Research
PMB 12729, Victoria Island, Lagos, Nigeria
Major: freshwater aquaculture, induced spawning,
integrated farming systems
Minor: catfishes, marine aquaculture, tilapias
- 018 Dr. Ahyaudin B. Ali**
Associate Professor, School of Biological Sciences
Universiti Sains Malaysia
11800 Minden, Penang, Malaysia
Tel: 877888 L.3508 Fax: 871526
Tlx: USM MA 40254
Major: farming systems research, freshwater
aquaculture, rice-fish farming systems
Minor: limnology, pond dynamics, reservoirs
- 019 Dr. Sayed M. Ali**
Red Sea Fisheries Research Centre
PO Box 730, Port Sudan, Sudan
Major: bivalves, coral reefs, marine aquaculture
Minor: environmental studies, giant clams, statistics
- 020 Ms. Peninah A. Aloo**
Lecturer, Zoology Department
Kenyatta University, PO Box 43844, Nairobi, Kenya
Tel: 810901 to 9 L.305
Major: diseases, parasites, pathology
Minor: freshwater aquaculture, limnology, tilapias
- 021 Mr. Aggrey J. Ambali**
Lecturer, Biology Department, University of Malaŵi
Chancellor College, PO Box 280, Zomba, Malaŵi
Tel: 522222 Fax: 522046
Tlx: 44742 CHANCOL MI
Major: broodstock, population genetics,
quantitative genetics
Minor: seed production, tilapias
- 022 Mr. Francis K.Y. Amevenku**
Research Officer, Institute of Aquatic Biology
PO Box 38, Achimota, Ghana
Tel: 775511 (Accra) Fax: 777655 (Accra)
Major: genetics, pond management,
reproductive physiology
- 023 Mr. Stephen Amisah**
Lecturer, Institute of Renewable Natural Resources
Department of Freshwater Fisheries
and Watershed Management
University of Science and Technology, Kumasi, Ghana
Tel: 5354
Major: freshwater aquaculture, genetics,
induced spawning
Minor: ecology, limnology, marine aquaculture
- 024 Dr. El Abed Amor**
Maitre de conférences
Ecole supérieure d'horticulture et d'élevage
4042 Chott Meriam, Sousse, Tunisia
Tel: 48134 Fax: 48275
Major: environmental impact
Minor: pollution, reproductive physiology
- 025 Mr. Ramanujam Ananthanarayanan**
Deputy Director of Fisheries, Salt Road
Nagappattinam, Tamil Nadu, India
Tel: 2321
Major: freshwater aquaculture
Minor: brackishwater aquaculture, extension
- 026 Ms. Merlina N. Andalecio**
University Research Associate II
Institute of Fisheries Policy and Development Studies
College of Fisheries
University of the Philippines in the Visayas
Miag-ao, Iloilo 5023, Philippines
Tel: 81534 to 5 Fax: 81534; 79248
Major: bioenergetics, environmental studies, taxonomy
Minor: computer methods, ecophysiology, modeling
- 027 Mr. Alexander J. Anderson**
Lecturer in Biochemistry, School of Life Science
Queensland University of Technology
GPO Box 2434, Brisbane 4001, Australia
Tel: 8642984 Fax: 8641534
Major: biochemistry, freshwater aquaculture, nutrition
Minor: brackishwater aquaculture, feed technology,
finfish
- 028 Dr. Ang Kok-Jee**
Professor of Aquaculture
Faculty of Fisheries and Marine Science
Universiti Pertanian Malaysia, 43400 UPM Serdang
Selangor Darul Ehsan, Malaysia
Tel: 9486101 Fax: 9482507
Tlx: UNIPERMA 37454
Major: farming systems research,
freshwater aquaculture
Minor: wastewater (sewage) reuse
- 029 Mr. Kambamba N. Anson**
Directeur, Centre rural pour le développement
intégré de Bonga-Yasa
BP 16.383 Kinhasa 1, Zaire
Major: catfishes, development, freshwater aquaculture
Minor: integrated farming systems, pond management,
tilapias
- 030 Mr. Evi M. Antoniou**
28 Asklipiou St., Katholikos, Limassol, Cyprus
Tel: 27608 Fax: 37069
Major: marine aquaculture, nutrition, pathology
Minor: crustaceans, environmental impact, tilapias
- 031 Mr. J. Davies Anuta**
Deputy Provost
Federal College of Fisheries and Marine Technology
PMB 80063, Victoria Island, Lagos, Nigeria
Tel: 613820
Major: nutrition, tilapias, water quality
Minor: production systems
- 032 Ms. Patricia E. Anyanwu**
Research Officer
Nigerian Institute for Oceanography
and Marine Research
PMB 12729, Victoria Island, Lagos, Nigeria
Tel: 617530
Major: genetics, seed production, tilapias
Minor: brackishwater aquaculture, farming systems
research, genetic resources
- 033 Mr. K.K. Appukuttan**
Scientist, Regional Center of
Central Marine Fisheries Research Institute
West Hill, PO Calicut-5, 673005, India
Tel: 56651
Major: bivalves, hatchery technology,
marine aquaculture
Minor: brackishwater aquaculture, seed production,
stock assessment
- 034 Mr. Zainal Arifin**
Researcher, BALITBANG SDL-LIPI
Guru-guru, Poka, Ambon 97233, Indonesia
Tel: 69352
Major: conservation, farming management,
reproductive physiology
Minor: coral reefs, quantitative genetics
- 035 Dr. Venkatesan Arul**
Research Associate, Department of Zoology
University of Madras, Guindy Campus
Madras 600025, India
Tel: 2351137 L.269 Tlx: 41 6736 UNOM IN
Major: bioenergetics, biotechnology, endocrinology

Minor: induced spawning, nutrition, reproductive physiology

036 Mr. Ambrose Asamoah
Assistant Research Officer, Institute of Aquatic Biology
PO Box 38, Achimota, Ghana
Tel: 775511 (Accra) Fax: 777655 (Accra)
Major: freshwater aquaculture, induced spawning, rice-fish farming systems
Minor: brackishwater aquaculture, hatchery technology, integrated farming systems

037 Ms. Grace L. Asheri
Research Fisheries Officer, Regional Fisheries Office
PO Box 3012, Arusha, Tanzania
Major: catfishes, freshwater aquaculture, tilapias
Minor: diseases, nutrition

038 Ms. Jema N. Awa
Research Officer
Nigerian Institute for Oceanography and Marine Research
PMB 12729, Victoria Island, Lagos, Nigeria
Tel: 617530
Major: growth, pathology, stock assessment
Minor: computer methods, diseases, parasites

039 Dr. Olajide A. Ayinla
Centre Manager, African Regional Aquaculture Centre
PMB 5122, Port Harcourt, Rivers State, Nigeria
Major: farming systems research, feed technology, hatchery technology
Minor: brackishwater aquaculture, extension, training

040 Mr. John D. Balarin
Project Advisor, DANIDA Technical Assistance
Oxbow Lake Small Scale Fishermen Project
Box 12, Jessore 7600, Bangladesh
Tel: 4156
Major: freshwater aquaculture, integrated farming systems, tilapias
Minor: broodstock, carps, farming systems research

041 Ms. Arcangel A. Balicanta
Senior Aquaculturist, Department of Agriculture
Laoag City, Ilocos Norte 2900, Philippines
Major: seaweeds
Minor: bivalves, freshwater aquaculture

042 Mr. Joseph J. Baloyi
Research Officer, Henderson Research Station
PB 2004, Mazowe, Zimbabwe
Major: nutrition

043 Mr. Edwin F. Bartholomew
Aquaculture Consultant, 620 Laie Drive
Makawao, HI 96768, USA
Tel: 5729979
Major: freshwater aquaculture
Minor: water quality, zooplankton

044 Dr. Devin Bartley
Fishery Resources Officer, FIRI-FAO
Via delle Terme di Caracalla, 00100 Rome, Italy
Tel: 57976470 Fax: 5120330
Tlx: 610181 FAO I E-mail: FIRM02IRMFAO01
Major: genetic resources
Minor: conservation, population genetics

045 Mr. N. Basavaraja
Assistant Professor
University of Agricultural Sciences
College of Fisheries
Mangalore 575002, Karnataka, India
Major: freshwater aquaculture
Minor: biotechnology, nutrition

046 Mr. Matas N. Batao
Dean/Associate Professor IV
College of Fisheries, Mindanao State University
Maguindanao 9601, Philippines
Major: brackishwater aquaculture, freshwater aquaculture
Minor: rice-fish farming systems

047 Dr. Antonio M. Bautista, Sr.
Associate Professor V, College of Fisheries
Pangasinan State University
Binmaley, Pangasinan 2417, Philippines
Major: freshwater aquaculture
Minor: integrated farming systems, tilapias

048 Dr. Leslie L. Behrends
Regional Manager, Agricultural Institute
PO Box 1010, Muscle Shoals, AL 35660, USA
Tel: 3863488 Fax: 3862284
Major: genetics, hatchery technology, tilapias
Minor: farming systems research, integrated farming systems, pond dynamics

049 Ms. Carmelita A. Belda
Research Associate
Zoology Department, James Cook University
Townsville, Queensland 4811, Australia
Tel: 814853; 814563
Major: bivalves, giant clams, marine aquaculture
Minor: nutrition, physiology, water quality

050 Dr. Hans B. Bentsen
Senior Scientist, Institute of Aquaculture Research
Agricultural University of Norway
PO Box 10, N-1432 Ås, Norway
Tel: 949507 Fax: 949502
Major: quantitative genetics
Minor: finfish

051 Dr. John A.H. Benzie
Senior Research Scientist
Australian Institute of Marine Science
PMB No. 3 Townsville, Queensland 4810, Australia
Tel: 789211 Fax: 725852
E-mail: J-BENZIE@AIM.BOV.AU
Major: crustaceans, genetics, marine aquaculture
Minor: biotechnology, conservation, environmental impact

052 Dr. Garry M. Bernacsek
Fisheries Specialist, Northeast Regional Project, CIDA
PO Box 6096, Gulshan, Dhaka, Bangladesh
Tel: 882823 Fax: 883097
Major: environmental impact, policy, stock assessment
Minor: conservation, habitat restoration, resource economics

053 Mr. Michel Bérubé
Chargé de projet, Hydro-Québec
500 Sherbrooke O. Montréal, Québec
Canada H3A 3C6
Tel: 2862094 Fax: 2867614
Major: environmental studies
Minor: limnology, pond management

054 Dr. Malcolm C.M. Beveridge
Senior Lecturer, Institute of Aquaculture
University of Stirling, Stirling FK9 4LA, UK
Tel: 467885 Fax: 472133 Tlx: 777759
Major: ecology, environmental impact, foodchains
Minor: cages, detritus, resource economics

055 Mr. Rai M. Bhowmick
Managing Director, Fisheries
Naturewealth Development Corporation Ltd.
Camp Office Ram Nagar, PO Bashra
Murshidabad, West Bengal, India
Major: freshwater aquaculture, hatchery technology, induced spawning

056 Ms. Mary Ann P. Bimbao
Research Associate, ICLARM
MCPO Box 2631, 0718 Makati
Metro Manila, Philippines

Tel: 8189283; 8180466; 8175255 Fax: 8163183
 Tlx: 64794 ICLARM PN; 4900010376 ICL UI (USA)
 E-mail: (CGNET) ICLARM;
 (SCIENCENET) ICLARM.MANII.A
 Major: economics, integrated farming systems,
 rice-fish farming systems
 Minor: farming systems research, resource economics,
 socioeconomics

057 Dr. Bhaskar R. Bollapragada
 Technical Officer, Rallis India Ltd.
 21 D.S. Marg, Bombay 400001, India
 Tel: 846311 to 2 Tlx: 0425 6585 RALI IN
 Major: brackishwater aquaculture, farming
 management, pond management
 Minor: economics, extension, post-harvest technology

058 Dr. Richard D. Braley
 Sole Proprietor/Consultant
 AQUASEARCH, 6-10 Elena St.
 Nelly Bay, Magnetic Island
 Queensland 4819, Australia
 Major: bivalves, giant clams, marine aquaculture
 Minor: coral reefs, hatchery technology, phytoplankton

059 Ms. Grace B. Brizuela
 Assistant Professor 3, College of Fisheries
 Bicol University, Tabaco, Albay 4511, Philippines
 Tel: 627
 Major: brackishwater aquaculture, limnology,
 water quality
 Minor: environmental studies, extension, freshwater
 aquaculture, integrated farming systems, milkfish,
 pond management, rice-fish farming systems,
 site selection, statistics, tilapias, water systems

060 Mr. Alan C. Brooks
 Research Officer, PO Box 700, Mzuzu, Malaŵi
 Tel: 332794 Fax: 335051
 Major: freshwater aquaculture, reservoirs, tilapias
 Minor: extension, integrated farming systems,
 stock assessment

061 Dr. Randall E. Brummett
 Director, ICLARM/GTZ Africa Aquaculture Project
 PO Box 229, Zomba, Malaŵi
 Tel: 531274; 531215
 Fax: 528103 Tlx: 4441 BUREAU MI
 Major: integrated farming systems,
 quantitative genetics, tilapias
 Minor: freshwater aquaculture, population genetics,
 reproductive physiology

062 Ms. Ma. Gladys G. Buenavista
 Ph.D. Candidate, Department of Sociology
 McBryde Hall
 Virginia Polytechnic Institute and State University
 Blacksburg, VA 24061-0137, USA
 Tel: 2316878 Fax: 2313860
 E-mail: GLAD at VTVM1
 Major: environmental studies

063 Mr. Bui Thi Lang
 Head, Department of Mangrove
 79 Truong Dinh, QI, Ho Chi Minh City, Vietnam
 Tel: 297001 Fax: 324400
 Tlx: 811278 COSAT VT
 Major: brackishwater aquaculture, ecology,
 habitat restoration
 Minor: crustaceans, environmental impact,
 farming management

064 Ms. Louise G. Buttle
 Ph.D. Student
 Humberside International Fisheries Institute
 University of Hull, Hull HUG 7RX, UK
 Tlx: 592592 KH MAIL G REF HULIB 375
 Major: catfishes, physiology, water quality
 Minor: ecophysiology, freshwater aquaculture,
 integrated farming systems, rural sociology

065 Mr. Joyson K. Buya
 Ph.D. Student, School of Biological Sciences
 University College of Swansea
 Singleton Park, Swansea SA1 8PP, UK
 Major: genetics
 Minor: biodiversity, freshwater aquaculture

066 Dr. Philip O.J. Bwathondi
 Director General, Tanzania Fisheries Research Institute
 PO Box 9750, Dar Es Salaam, Tanzania
 Tel: 73563
 Major: broodstock, cages, marine aquaculture
 Minor: brackishwater aquaculture

067 Ms. Arsenia G. Cagauan
 Assistant Professor, Freshwater Aquaculture Center
 Central Luzon State University
 Muñoz, Nueva Ecija 3120, Philippines
 Tel/Fax: 3017323
 Major: freshwater aquaculture
 Minor: water quality

068 Dr. Jorge O. Calderon
 PO Box 09-01-4519, Guayaquil, Ecuador
 Tel: 765153 Fax: 289707
 Major: brackishwater aquaculture, modeling,
 pond dynamics
 Minor: growth, induced spawning, marine aquaculture

069 Ms. Ma. Luisa Carranza Arauna
 Raimundo Fernandez-Villaverde, No. 40-342
 Madrid, Spain
 Major: marine aquaculture, pathology
 Minor: physiology

070 Mr. Arturo Chacon-Torres
 Head of Aquatic Biology Laboratory
 Edificio "R" Planta Baja
 Escuela de Biología, Ciudad Universitaria
 Morelia, Michoacan, Mexico
 Tel: 167412 Fax: 144634
 Major: ecology, limnology, water quality
 Minor: computer methods, freshwater aquaculture,
 site selection

071 Mr. Momodou A. Cham
 Assistant Director, Fisheries Department
 6 Marina Parade, Banjul, Gambia
 Tel: 28727; 27339 Fax: 29701
 Tlx: 2246 JICA GV
 Major: bivalves, brackishwater aquaculture,
 crustaceans
 Minor: hatchery technology, marketing, socioeconomics

072 Dr. Gunindra N. Chattopadhyay
 Soil Scientist, Institute of Agriculture
 Visva Bharati University, Sriniketan 731236, India
 Tel: 779 Tlx: 203 201 RABI IN
 Major: pond management, rice-fish farming systems,
 waste-fed
 Minor: environmental studies, farming management,
 farming systems research

073 Dr. Rikhi S. Chauhan
 Assistant Professor, Department of Aquaculture
 College of Fisheries, G.B. Pant University of
 Agriculture and Technology
 Pantnagar 263149, U.P., India
 Major: biotechnology, freshwater aquaculture,
 pathology
 Minor: farming management, induced spawning,
 site selection

074 Mr. Cheah Sin-Hock
 c/o Dr. Chan L. Lee

List of NTAS Members

School of Biological Sciences
Northern Territory University
PO Box 40167, Casuarina
Northern Territories 0811, Australia
Tel: 466666 Fax: 466690; 270612
Major: induced spawning
Minor: carps, catfishes, hatchery technology

075 Mr. A. Chellam
Scientist, Tuticorin Research Centre of
Central Marine Fisheries Research Institute
90 North Beach Rd., Tuticorin 628001, India
Tel: 21515
Major: bivalves, hatchery technology,
marine aquaculture, pearl culture

076 Dr. Chen Liqiao
Vice-Professor, Department of Biology
East China Normal University, Shanghai 200062, China
Tel: 2577577 Tlx: 33328 ECNU CH
Major: crustaceans, freshwater aquaculture, nutrition
Minor: biotechnology, finfish, genetics

077 Mr. Chen Zhen-Ran
Research Professor, Laboratory of Marine Biology
South China Sea Institute of Oceanology
Academia Sinica
164 West Xin Gang Rd., Guangzhou 510301, China
Tel: 4451335 to 510 Fax: 4451672
Major: marine aquaculture, stock assessment
Minor: brackishwater aquaculture, ecology

078 Mr. Fredson J.K. Chikafumbwa
Research Associate III
ICLARM/GTZ Africa Aquaculture Project
PO Box 229, Zomba, Malawi
Tel: 531274; 531215
Fax: 528103 Tlx: 4441 BUREAU MI
Major: freshwater aquaculture, integrated farming
systems, tilapias
Minor: catfishes, nutrition, pond management,
rice-fish farming systems

079 Dr. Supranee Chinabut
Fish Pathologist
Aquatic Animal Health Research Institute
Kasetsart University Campus
Bangkhon 10900, Bangkok, Thailand
Tel: 5794122 E-mail: 5613993
Major: diseases, parasites, pathology
Minor: immunology

080 Dr. Satish C. Choy
Senior Lecturer, Department of Biology
Universiti Brunei Darussalam
Gadong 3186, Brunei Darussalam
Tel: 427001 Fax: 427003 Tlx: UBD BU 2725
Major: ecophysiology
Minor: crustaceans, finfish

081 Mr. Mikkel S. Christensen
Consultant, Frankfurter Str. 184 (#607)
D-6078 Neu-Isenburg, Germany
Tel: 34541
Major: environmental impact, freshwater aquaculture,
integrated farming systems
Minor: brackishwater aquaculture, conservation,
marine aquaculture

082 Mr. Antonio V. Circa
Assistant Professor, Freshwater Aquaculture Center
Central Luzon State University
Muñoz, Nueva Ecija 3120, Philippines
Tel/Fax: 3017323
Major: freshwater aquaculture, integrated farming
systems, waste-fed
Minor: pond dynamics, rice-fish farming systems,
water quality

083 Mr. Adou Cissé
Chef du département aquaculture
Centre de recherches océanologiques
BP V 18 Abidjan, Côte d'Ivoire
Tel: 355014; 355880 Fax: 351155
Tlx: 214235F (Attn: Mix C-R-O-A)
Major: growth, nutrition, tilapias
Minor: farming systems research

084 Dr. David Coates
FAO Field Office
Box 305, Madang, Papua New Guinea
Tel: 823011 Fax: 823306
Major: fisheries enhancement
Minor: environmental impact, socioeconomics,
stock assessment

085 Dr. André G. Coche
Via Adolfo Vigorelli, 7, Rome 00144, Italy
Tel: 5295977
Major: development, extension, freshwater aquaculture
Minor: cages, rice-fish farming systems, tilapias

086 Mr. Robert D. Cordover
Department of Conservation, Forests and Lands
PO Box 41, East Melbourne, Victoria 3302, Australia

Tel: 8034691 Fax: 4124623
Major: brackishwater aquaculture
Minor: hatchery technology, pond management

087 Dr. Rhodora A. Corrales
Associate Professor, Marine Science Institute
University of the Philippines
Diliman 1101, Quezon City, Philippines
Tel: 986976 to 9 L.7414 Fax: 974355
Tlx: 2231 UP DIL PU
Major: growth, physiology, seaweeds

088 Dr. Barry A. Costa-Pierce
Director of Research and Development
Mauna Loa Research Institute, Inc., 6 Hale Ohia Rd.
PO Box 1050, Volcano, HI 96785, USA
Tel: 9678607 Fax: 9858608
Major: freshwater aquaculture, integrated farming
systems, reservoirs
Minor: foodchains, pond dynamics, production systems

089 Mr. Marcelo Costero
Director, Laboratorio de Ciencias Marinas
Apartado Postal No. 3, Barra de Navidad
Jalisco 48987, Mexico
Tel: 33370130 Fax: 33370168
Major: crustaceans, hatchery technology, marine
aquaculture
Minor: freshwater aquaculture, tilapias, water quality

090 Dr. Peter Coutteau
Research Assistant, Faculty of Agricultural Sciences
Laboratory of Aquaculture and Artemia Center
Rozier 44, B-9000 Ghent, Belgium
Tel: 643754 Fax: 644193 Tlx: 12754 RUGENT B
E-mail: ARTEMIA@BGERUG51.BITNET
Major: bivalves, nutrition, seed production
Minor: feed technology, hatchery technology,
zooplankton

091 Dr. Ian G. Cowx
Senior Lecturer
Humberside International Fisheries Institute
University of Hull, Hull HU6 7RX, UK
Fax: 470129
Major: extension, freshwater aquaculture,
integrated farming systems
Minor: computer methods, environmental impact,
farming management

092 Dr. Donatella Crosetti
Researcher, Istituto Centrale per la Ricerca Scientifica
e Tecnologica Applicata alla Pesca Marittima

P.zza ISTRIA 3-00198, Rome, Italy
Tel: 8607558 Fax: 8088326
Major: genetic resources, genetics, population genetics
Minor: integrated farming systems, lagoons, tilapias

093 Dr. Emmanuel M. Cruz
Research Scientist
Mariculture and Fisheries Department
Kuwait Institute for Scientific Research, PO Box 1638
22017 Salmiyah, Kuwait
Tel: 4816237 Fax: 4846891 Tlx: 22299 KISR KT
Major: integrated farming systems, nutrition, tilapias
Minor: cages, marine aquaculture

094 Mr. E. Flinn Curren
Aquaculture Consultant, PO Box 1517
Kolonia Pohnpei, FM 96941, Micronesia
Tel: 5886; 2795 Fax: 5997
Major: giant clams, marine aquaculture,
stock assessment
Minor: environmental studies, socioeconomics

095 Mr. Stephen Dadzie
Chairman, Department of Zoology
University of Nairobi
PO Box 30197, Nairobi, Kenya
Tel: 442316 Fax: 336885 Tlx: KE 22095
Major: freshwater aquaculture, reproductive
physiology, training
Minor: ecology, reservoirs, seed production

096 Mr. Jens Peter Tang Dalsgaard
Assistant Scientist, ICLARM
MCPO Box 2631, 0718 Makati
Metro Manila, Philippines
Tel: 8189283; 8180466; 8175255 Fax: 8163183
Tlx: 64794 ICLARM PN; 4900010376 ICL UI (USA)
E-mail: (CGNET) ICLARM;
(SCIENCENET) ICLARM.MANILA
Major: ecology, farming systems research, modeling
Minor: environmental impact, integrated farming
systems, rice-fish farming systems

097 Mr. Paul J. Dalzell
Inshore Fisheries Scientist, South Pacific Commission
BP D5 Noumea, New Caledonia
Tel: 262000 Fax: 263818
Tlx: SOAACOM 3B9 NM
Major: coral reefs, growth, stock assessment
Minor: brackishwater aquaculture, modeling, policy

098 Mr. Alfred L. Dassah
Lecturer/Head of Department

Institute of Renewable Natural Resources
University of Science and Technology, Kumasi, Ghana
Major: freshwater aquaculture, integrated farming
systems
Minor: water systems

099 Dr. F. Brian Davy
Associate Director, IDRC
PO Box 8500, Ottawa, Ontario, Canada K1G 3H9
Tel: 2366163 L.2209 Fax: 5677749
Major: curriculum development, farming systems
research, marine aquaculture

100 Dr. Sena S. De Silva
Coordinator, Post-Graduate Courses
Faculty of Aquatic Science, Deakin University
PO Box 423, Warrnambool, Victoria 3280, Australia
Tel: 633527 Fax: 633531
Major: curriculum development, nutrition, reservoirs
Minor: feed technology, freshwater aquaculture,
marine aquaculture

101 Mr. Padmakar V. Dehadrai
Deputy Director General
Indian Council of Agricultural Research
Ministry of Agriculture, Rm. 103, Krishi Bhawan
Dr. Rajendra Prasad Rd., New Delhi 110001, India
Tel: 672385; 382713 Fax: 387293
Tlx: 031-62249 ICAR IN
Major: development
Minor: ecology, farming management

102 Dr. Catalino R. dela Cruz
Consultant, ICLARM
MCPO Box 2631, 0718 Makati
Metro Manila, Philippines
Tel: 8189283; 8180466; 8175255 Fax: 8163183
Tlx: 64794 ICLARM PN; 4900010376 ICL UI (USA)
E-mail: (CGNET) ICLARM;
(SCIENCENET) ICLARM.MANILA
Major: engineering, integrated farming systems,
rice-fish farming systems
Minor: brackishwater aquaculture, freshwater
aquaculture, tilapias, training, water quality

103 Mr. Inza Dembele
Département piscicole, Institut des Savanes
01 BP 633, Bouaké 01, Côte d'Ivoire
Tel: 632170 Fax: 632045
Major: farming systems research, production systems,
tilapias

104 Mr. Hamet D. Diadihou
Centre de recherches océanographiques
de Dakar-Thiaroye, BP 427 Ziguinchor, Sénégal
Tel: 340534
Major: bivalves, brackishwater aquaculture
Minor: growth

105 Mr. Anis Diallo
Aquaculturist, Centre de recherches océanographiques
de Dakar-Thiaroye
BP 427 Ziguinchor, Sénégal
Tel: 340534 to 6 Fax: 342792
Major: brackishwater aquaculture, environmental
impact, farming management, farming systems
research, integrated farming systems, pond
management, production systems, rice-fish farming
systems, tilapias, waste-fed, water quality,
zooplankton
Minor: computer methods, economics, freshwater
aquaculture, growth, marketing, resource economics,
rural sociology, socioeconomics

106 Dr. Malcolm W. Dickson
Project Company Manager
Central and Northern Regions Fish Farming Project
PO Box 700, Mzuzu, Malawi
Tel: 335253 Fax: 335051
Major: integrated farming systems, nutrition, tilapias
Minor: development, farming management,
freshwater aquaculture

107 Mr. Khokal R. Dinesh
Research Scholar, Genetics Laboratory
Department of Zoology
National University of Singapore
Lower Kent Ridge, Singapore 0511
Tel: 7722707 Fax: 7792486
Tlx: UNISPO RS 33943 E-mail: SCIP 1020 NUSVM
Major: DNA fingerprinting, genetics
Minor: carps, genetic resources, induced spawning

108 Mr. Nelson M. Doren
Assistant Professor II, School of Fisheries
Mariano Marcos State University, Currimao
Ilocos Norte 2903, Philippines
Major: extension, freshwater aquaculture,
integrated farming systems

109 Dr. Thierry Doudet
SEPIA International, 14, av. Gustave Eiffel
78182 Saint-Quentin en Yvelines Cedex, France
Tel: 30964975 Fax: 30964949
Tlx: SEPIA 699734 F

Major: environmental studies, nutrition
Minor: brackishwater aquaculture, tilapias

110 Dr. Kiran Dube
Scientist/Head of Section
Central Institute of Fisheries Education
Versova, Bombay 400061, India
Tel: 6261446 to 8 Fax: 6261573 Tlx: 01178421
Major: integrated farming systems, pond dynamics,
reproductive physiology
Minor: limnology, production systems,
rice-fish farming systems

111 Dr. Henri J. Dumont
Professor, Institute of Animal Ecology
University of Ghent
Ledeganckstraat, 35, Ghent 9000, Belgium
Tel/Fax: 645253 Tlx: 12754 RUGENT B
Major: freshwater aquaculture, zooplankton
Minor: crustaceans, ecology, limnology

112 Mr. Danilo T. Dy
Research/Administrative Officer
Marine Biology Section
University of San Carlos, Cebu City 6000, Philippines
Major: ecophysiology, environmental impact,
meiofauna
Minor: computer methods, software, water quality

113 Dr. Udeni Edirisinghe
Senior Lecturer, Department of Animal Science
Faculty of Agriculture, University of Peradeniya
Peradeniya, Sri Lanka
Tel: 88657; 88239 Fax: 88041
Major: freshwater aquaculture, integrated farming
systems, reservoirs

114 Dr. Peter Edwards
Professor
Division of Agricultural and Food Engineering
AIT, GPO Box 2754, Bangkok 10501, Thailand
Tel: 5160110 Fax: 5162126 Tlx: 84276 TH
Major: integrated farming systems, pond dynamics,
wastewater (sewage) reuse
Minor: carps, tilapias, waste-fed

115 Mr. Sunday B. Ekanem
Lecturer I, Department of Biological Sciences
University of Calabar, PMB 1115, Calabar, Nigeria
Tel: 222749 Fax: 221773; 221137
Tlx: 65103 UNICAL NG
Major: biochemistry, catfishes, feed technology, finfish,
freshwater aquaculture

Minor: growth, induced spawning, information,
nutrition, water quality

116 Dr. Santiago U.K. Ekaratne
Senior Lecturer Grade 1, Department of Zoology
University of Colombo, PO Box 1490
Colombo 3, Sri Lanka
Tel: 503399 Fax: 583810
Major: bivalves, coral reefs, crustaceans, lagoons
Minor: growth, physiology

117 Dr. Ambekar E. Eknath
Associate Scientist, ICLARM
MCPO Box 2631, 0718 Makati
Metro Manila, Philippines
Tel: 8189283; 8180466; 8175255 Fax: 8163183
Tlx: 64794 ICLARM PN; 4900010376 ICL UI (USA)
E-mail: (CGNET) ICLARM;
(SCIENCENET) ICLARM.MANILA
Major: genetic resources, genetics, modeling
Minor: farming systems research, population genetics

118 Mr. Ekpo G. Ekpo
Senior Research Technologist
Department of Fisheries and Aquaculture
Institute of Oceanography, University of Calabar
PMB 1115, Calabar, Nigeria
Tel: 222749 Fax: 221773; 221137
Tlx: 65103 UNICAL NG
Major: freshwater aquaculture, hatchery technology,
induced spawning
Minor: diseases, engineering, nutrition

119 Mr. Michael O. Ella
Deputy Director of Fisheries, Department of Fisheries
PMB 1168, Calabar, Cross River State, Nigeria
Major: catfishes, extension, feed technology
Minor: endocrinology, integrated farming systems,
pond management

120 Mr. Abdalla G. Elnaiem
Associate Professor, Red Sea Fisheries Research Centre
Box 730, Port Sudan, Sudan
Tel: 4667 Tlx: 7000
Major: bivalves, farming management,
marine aquaculture

121 Mr. Udemé I. Enin
Research Fellow II, Institute of Oceanography
University of Calabar, PMB 1115, Calabar, Nigeria
Tel: 222749 Fax: 221773; 221137
Tlx: 65103 UNICAL NG

Major: curriculum development, farming management,
post-harvest technology
Minor: conservation, resource economics

122 Ms. Mamaa Entsua-Mensah
Research Officer, Institute of Aquatic Biology
PO Box 38, Achimota, Ghana
Tel: 775511 (Accra) Fax: 777655 (Accra)
Major: software, statistics, stock assessment

123 Dr. John M. Epifanio
Research Associate, Department of Biology
Virginia Commonwealth University, Box 2012
816 Park Ave., Richmond, VA 23284-2012, USA
Tel: 3671562 Fax: 3670503
E-mail: JEPIFAN@CABELL.VCU.EDU
Major: finfish, genetic resources
Minor: policy

124 Ms. Cornelia C. Estabillo
Assistant Professor, College of Fisheries
Pangasinan State University, Binmaley
Pangasinan 2417, Philippines
Major: freshwater aquaculture, seed production,
tilapias
Minor: giant clams, reservoirs

125 Mr. Lawrence E. Etim
Research Fellow/Lecturer
Department of Fisheries and Aquaculture
Institute of Oceanography, University of Calabar
PMB 1115, Calabar, Nigeria
Tel: 222749 Fax: 221773; 221137
Tlx: 65103 UNICAL NG
Major: bivalves, finfish, stock assessment

126 Mr. Joseph E. Eyo
Lecturer, Department of Zoology
University of Nigeria, Nsukka, Enugu State, Nigeria
Major: catfishes, freshwater aquaculture,
seed production
Minor: genetics, reproductive physiology, taxonomy

127 Dr. Bernard Ezenwa
Chief Research Officer
Nigerian Institute for Oceanography
and Marine Research
PMB 12729, Victoria Island, Lagos, Nigeria
Tel: 617530
Major: crustaceans, hatchery technology,
induced spawning
Minor: economics, farming management, genetics

128 Mr. 'Ulunga Faanunu
 Fisheries Officer, Ministry of Fisheries
 PO Box 871, Nukualofa, Tonga
 Tel: 21399 Fax: 23891
 Major: marine aquaculture
 Minor: resource economics

129 Dr. Oyedapo A. Fagbenro
 Ph.D. Student, Institute of Aquaculture
 University of Stirling, Stirling FK9 4LA, UK
 Fax: 472133 Tlx: 777759
 Major: finfish, nutrition
 Minor: ecology

130 Mr. Jerry O. Fagolimul
 Marine Research Specialist
 Marine Resources Management Division
 Department of Resources and Development
 PO Box 251, Yap FM 96943, Micronesia
 Tel: 2294
 Major: giant clams, hatchery technology,
 seed production
 Minor: marine aquaculture, site selection,
 stock assessment

131 Ms. Emma Fajer Avila
 Chief of Department
 Centro de Investigaciones Pesgueras
 5th Ave y 248 Edificio 2, Barlovento
 Playa Ciudad Havana, Cuba
 Tel: 227645
 Major: diseases, immunology, pathology
 Minor: crustaceans, freshwater aquaculture,
 microbiology

132 Dr. Augustine E. Falaye
 Lecturer
 Department of Wildlife and Fisheries Management
 University of Ibadan, Ibadan, Nigeria
 Tel: 400550 to 614 L.2234 Tlx: CAMPUS 31128 NG
 Major: nutrition
 Minor: freshwater aquaculture, tilapias

133 Dr. Anthony S.D. Farmer
 Anthony Farmer & Associates, Prime Farm
 Whitchurch Canonorum Bridport
 Dorset DT6 6RP, UK
 Tel: 89100; 89736 Fax: 89081
 Tlx: 94016266 ASDF G
 Major: brackishwater aquaculture, crustaceans,
 marine aquaculture
 Minor: environmental impact, rice-fish farming
 systems, shrimps

134 Mr. Daniel F. Fegan
 Research Manager, Aquastar Laboratories
 PO Box 5, Amphur Muang, Songkhla 90000, Thailand
 Tel: 321056 Fax: 321057
 Major: hatchery technology, shrimps
 Minor: diseases, nutrition, water quality

135 Mr. S. Felix
 Assistant Professor, Department of Aquaculture
 Fisheries College and Research Institute
 Tuticorin 628008, Tamil Nadu, India
 Tel: 22154; 21554
 Major: brackishwater aquaculture, pathology
 Minor: conservation, integrated farming systems

136 Ms. Becky A. Field
 Network Administrator, Mollusc Culture Network
 Biology Department, Dalhousie University, Halifax
 Nova Scotia, Canada B3H 4J1
 Tel: 4943610 Fax: 4946899
 Tlx: 019-21863 DAL UNIV
 Major: bivalves, marine aquaculture
 Minor: rural sociology

137 Dr. Lev Fishelson
 Professor, Department of Zoology, Tel Aviv University
 69978 Tel Aviv, Israel
 Tel: 6408655 Fax: 6409403 E-mail: ZOO@TAUNOS
 Major: ecology, freshwater aquaculture
 Minor: behavior, reproductive physiology

138 Dr. Romeo D. Fortes
 Professor, Institute of Aquaculture
 College of Fisheries
 University of the Philippines in the Visayas
 Miang-ao, Iloilo 5023, Philippines
 Tel: 81535 L.156 Fax: 79248
 Major: brackishwater aquaculture, pond dynamics,
 pond management
 Minor: bivalves, marine aquaculture

139 Dr. Emmanuel Frempong
 Senior Lecturer, Department of Biological Sciences
 University of Science and Technology, Kumasi, Ghana
 Tel: 5350 to 9 Tlx: 2555 UST GH
 Major: freshwater aquaculture, integrated farming
 systems
 Minor: limnology

140 Dr. Rainer Froese
 Associate Scientist, ICLARM
 MCPO Box 2631, 0718 Makati
 Metro Manila, Philippines

Tel: 8189283; 8180466; 8175255 Fax: 8163183
 Tlx: 64794 ICLARM PN; 4900010376 ICL UI (USA)
 E-mail: (CGNET) ICLARM;
 (SCIENCENET) ICLARM.MANILA
 Major: computer methods, conservation, information
 Minor: ecology, finfish, physiology

141 Dr. Jacques Fuchs
 Institut français de recherche pour
 l'exploitation de la mer
 155, rue Jean-Jacques Rousseau
 92138 Issy-les-Moulineaux Cedex, France
 Tel: 46482260 Fax: 46482276
 Major: finfish, marine aquaculture, socioeconomics
 Minor: environmental studies, nutrition, site selection

142 Dr. Gonzalo M. Gajardo
 Lecturer, Instituto Profesional de Osorno
 PO Box 933, Osorno, Chile
 Tel: 235377 L.63 Fax: 239517
 Major: genetics, marine aquaculture
 Minor: environmental impact

143 Dr. Graham A.E. Gall
 Professor, Department of Animal Science
 University of California, Davis, CA 95616, USA
 Tel: 7521257 Fax: 7521254
 Major: broodstock, finfish, quantitative genetics
 Minor: conservation, genetic resources,
 population genetics

144 Dr. Ofelia Galman-Omitogun
 Associate Professor, Institute of Biology
 College of Science, University of the Philippines
 Diliman 1101, Quezon City, Philippines
 Tel: 995071; 982471 L.6452 Fax: 996868
 Major: genetics, tilapias
 Minor: biotechnology, freshwater aquaculture

145 Mr. Ajit J. Galvankar
 Fisheries Biologist, Department of Fisheries
 College of Agriculture, 111/1, B Prabhat Rd. Lane 14
 Pune 411004, India
 Tel: 334527
 Major: brackishwater aquaculture, freshwater
 aquaculture, nutrition
 Minor: seed production, site selection, tilapias

146 Mr. Luis Ma. B. Garcia
 Scientist, SEAFDEC Aquaculture Department
 Tigbauan, Iloilo 5021, Philippines
 Tel: 81261; 9230201 to 3 (Manila) Fax: 81340
 Tlx: 29750 SEAFDC PH

Major: endocrinology, induced spawning,
reproductive physiology
Minor: broodstock, milkfish, physiology

147 Mr. Ger Guo Chang
Associate Professor, Ocean University of Qingdao
266003 Qingdao, China
Tel: 264361 Fax: 279091
Tlx: 32163 SCO CN
Major: cages, finfish, genetics
Minor: brackishwater aquaculture, ecology, growth

148 Mr. Mark H. Gervis
Manager, ICLARM Coastal Aquaculture Centre
PO Box 438, Honiara, Solomon Islands
Tel: 20255 Fax: 22130
Major: bivalves, giant clams, marine aquaculture
Minor: coral reefs, farming management,
production systems

149 Dr. Teferra Getachew
Associate Professor, Department of Biology
Addis Ababa University, PO Box 1176
Addis Ababa, Ethiopia
Tel: 553177 L.152 Fax: 550911 Tlx: 21205
Major: nutrition, physiology, tilapias
Minor: freshwater aquaculture, growth, limnology

150 Dr. Adel N.Z. Gindy
Head of Aquaculture Section
Marine Science and Fisheries Centre
Ministry of Agriculture and Fisheries Resources
Sultanate of Oman, PO Box 467, Muscat, Egypt
Tel: 740061 Fax: 740159
Major: cages, marine aquaculture, rice-fish
farming systems
Minor: bivalves

151 Dr. Trygve Gjedrem
Professor, Institute of Aquaculture Research
Agricultural University of Norway
PO Box 10, N-1432 Ås, Norway
Tel: 949513 Fax: 949502
Major: quantitative genetics
Minor: freshwater aquaculture, marine aquaculture

152 Dr. Bjarne R. Gjerde
Scientist, Institute of Aquaculture Research
Agricultural University of Norway
PO Box 10, 1432 Ås-NLH, Norway
Tel: 949514 Fax: 949502
Major: quantitative genetics
Minor: carps, tilapias

153 Mr. Hans M. Gjoen
Institute of Aquaculture Research
Agricultural University of Norway
PO Box 10, 1432 Ås-NLH, Norway
Tel: 942515 Fax: 949502
E-mail: AKVAHMG@NLH 10000.NLM.NO
Major: quantitative genetics
Minor: marine aquaculture, tilapias

154 Mr. Israil Md. Golder
Farm Manager, M.I. Golder
Fish Hatchery Development Project
Parbatipur 5250, Dinajpur, Bangladesh
Major: environmental studies, freshwater aquaculture,
integrated farming systems
Minor: extension, nutrition, pesticides

155 Dr. Edgardo D. Gomez
Professor/Director, Marine Science Institute
University of the Philippines, Diliman 1101
Quezon City, Philippines
Tel: 989676 to 9 L.7416 Fax: 974355
Tlx: 2231 UP DIL PU
Major: giant clams, habitat restoration,
marine aquaculture
Minor: coral reefs, seed production, site selection

156 Dr. Julian F. Gonsalves
Vice-President for Programs, IIRR
Silang, Cavite 4118, Philippines
Tel: 582659 (Manila) Fax: 5222494 (Manila)
Major: conservation, extension, integrated farming
systems
Minor: habitat restoration, pond management,
rice-fish farming systems

157 Mr. Dhaneshwar Goorah
Divisional Scientific Officer
Albion Fisheries Research Centre, Albion, Mauritius
Tel: 2334729 Tlx: 4805 OCEANFY 1W
Major: crustaceans, diseases, stock assessment

158 Dr. Moshe Gophen
Senior Scientist/Full Professor
Biological Station, University of Oklahoma
HC 71, Box 205, Kingston, OK 73479, USA
Tel: 5642463 Fax: 5642479
Major: limnology, tilapias, zooplankton
Minor: ecophysiology, foodchains, water quality

159 Mr. Christopher Gordon
Research Fellow, Volta Basin Research Project
University of Ghana, PO Box 209

Legon, Accra, Ghana
Major: brackishwater aquaculture, crustaceans,
environmental studies
Minor: reservoirs, water quality, zooplankton

160 Dr. Philippe Gouletquer
Researcher, Aquaculture Research Laboratory
Institut français de recherche pour
l'exploitation de la mer
Avenue du Général de Gaulle, BP 32
14520 Port-en-Bessin-Huppain, France
Tel: 31511300 Fax: 31511301
Tlx: 171-150
Major: bivalves, ecophysiology, marine aquaculture
Minor: economics, growth, modeling

161 Mr. Hugh Govan
Servicenter, Terraza #4 Estepona 29680
Malaga, Spain
Tel: 895064 Fax: 803386
Major: bivalves, coral reefs, giant clams
Minor: extension, marine aquaculture, predators

162 Mr. Gu Ruobo
Asian Pacific Regional Research and Training Centre
for Integrated Fish Farming, Wuxi, China 214081
Tel: 601424 Fax: 603304
Tlx: 3225
Major: freshwater aquaculture, induced spawning,
integrated farming systems
Minor: hatchery technology, pond management,
rice-fish farming systems

163 Dr. Rafael D. Guerrero III
c/o Aquatic Biosystems, Bay, Laguna 4300, Philippines
Major: freshwater aquaculture, marine aquaculture,
tilapias
Minor: farming management, hatchery technology,
training

164 Ms. Rasanthi M. Gunasekera
Ph.D. Student, Department of Zoology
National University of Singapore
Lower Kent Ridge, Singapore 0511
Tel: 7722708 Fax: 7792486
Major: nutrition
Minor: reproductive physiology, tilapias

165 Dr. Jorge N. Günther
Professor, Escuela Ciencias Biológicas
Universidad Nacional, Heredia, Costa Rica
Tel: 375230 Fax: 376427
Major: bioenergetics, finfish, nutrition

166 Dr. Modadugu V. Gupta
Senior Aquaculture Specialist
ICLARM Bangladesh Office
House 20, Rd. 9/A, Dhanmondi R/A
Dhaka 1209, Bangladesh
Tel: 812466; 817345 Tlx: 642671 HBP BJ
Fax: 884968; 883416
Major: farming systems research, freshwater
aquaculture, production systems

167 Mr. Richard Gurure
Department of Animal Science
University of Guelph, Guelph
Ontario, Canada N1G 4S7
Major: farming systems research, feed technology,
finfish, integrated farming systems

168 Dr. Kirk Hahn
Researcher, HIMB/Coconut Island
PO Box 1346, Kaneohe, HI 96744, USA
Major: endocrinology, marine aquaculture, physiology

169 Mr. Boyd A. Haight
Senior Aquaculturist, c/o FAO Representative
PO Box 3730, Harare, Zimbabwe
Tel: 724985 Fax: 729563
Tlx: 26040 FAO ZW
Major: extension, freshwater aquaculture,
pond management
Minor: computer methods, environmental impact,
reservoirs

170 Mr. René D. Haller
Managing Director, Baobab Farm Ltd.
PO Box 81995, Mombasa, Kenya
Tel: 486155; 485754; 485729; 485501
Fax: 485151 Tlx: 21357; 21265
Major: freshwater aquaculture, tilapias
Minor: rice-fish farming systems, wastewater (sewage)
reuse

171 Dr. Eric M. Hallerman
Assistant Professor
Department of Fisheries and Wildlife Sciences
Virginia Polytechnic Institute and State University
Blacksburg, VA 24061-0321, USA
Tel: 2313257 Fax: 2317580
E-mail: HALLERMN@VTVM1 (BITNET)
Major: genetics, policy, population genetics
Minor: biotechnology, conservation,
curriculum development

172 Mr. Matthias Halwart
Scientific Employee, University of Stuttgart
University of Landscape Planning and Ecology
Keplerstr. II, 7000 Stuttgart I
Major: ecology, freshwater aquaculture,
rice-fish farming systems
Minor: integrated pest management

173 Mr. A.K. Yousuf Haroon
Senior Scientist, Fisheries Research Institute
Riverine Station, Baburhat
Chandpur 3602, Bangladesh
Tel: 3482; 3407
Major: freshwater aquaculture, hatchery technology,
limnology
Minor: pond management, rice-fish farming systems,
stock assessment

174 Dr. Sheenan Harpaz
Aquaculture Research Specialist
Fish and Aquaculture Research Unit
Agricultural Research Organization
PO Box 6, Bet Dagan, Israel
Tel: 9683388 Fax: 993998
Major: behavior, freshwater aquaculture, nutrition
Minor: crustaceans, growth, integrated farming
systems

175 Dr. Brian J. Harvey
President, MTL Biotech Ltd., PO Box 5760
Station B, Victoria, B.C., Canada V8R 6S8
Tel: 5986019 Fax: 5982047
Major: biotechnology, cryopreservation,
genetic resources
Minor: bivalves, environmental studies

176 Dr. Mohammad R. Hasan
Associate Professor
Department of Fisheries Biology and Limnology
Bangladesh Agricultural University
Mymensingh 2202, Bangladesh
Tel: 5695 to 7 L.281
Major: carps, feed technology, nutrition
Minor: biotechnology, environmental impact,
stock assessment

177 Dr. Roshada Hashim
Lecturer, School of Biological Sciences
University Sains Malaysia
11800 Minden, Penang, Malaysia
Tel: 877888 L.3048 Fax: 871526 Tlx: USM MA 40254
Major: extension, nutrition
Minor: finfish

178 Mr. Graham S. Haylor
Research Fellow/Consultant, Institute of Aquaculture
University of Stirling, Stirling FK9 4LA, UK
Tel: 473171 Fax: 472133 Tlx: 777759
Major: catfishes, farming management,
hatchery technology
Minor: farming systems research, production systems,
training

179 Dr. Dennis Hedgecock
Professor, Bodega Marine Laboratory
PO Box 247, Bodega Bay, CA 94923, USA
Tel: 8752075 Fax: 8752089
E-mail: DEHEDGECOCK@UCDAVIS.EDU
Major: genetic resources, population genetics,
quantitative genetics
Minor: bivalves, crustaceans, finfish

180 Mr. Robert W. Hickman
Aquaculture Scientist, MAF Fisheries
Aquaculture Research Centre, PO Box 297
Wellington, New Zealand
Tel: 3888596 Fax: 3863179
Major: bivalves, farming systems research,
marine aquaculture
Minor: hatchery technology, induced spawning,
seed production

181 Dr. Kevin D. Hopkins
Associate Professor, College of Agriculture
University of Hawaii at Hilo, 96720-4091, USA
Tel: 9333393 Fax: 9333674
Major: curriculum development, finfish,
pond dynamics
Minor: growth, integrated farming systems, tilapias

182 Dr. Bram E.A. Huisman
Professor, Department of Fish Culture and Fisheries
Wageningen Agricultural University
PO Box 338, 6700 AH Wageningen, The Netherlands
Tel: 83307 Fax: 83962
Major: finfish, freshwater aquaculture, growth
Minor: bioenergetics, carps, catfishes,
farming management

183 Dr. Gideon Hulata
Research Scientist
Fish and Aquaculture Research Unit
Agriculture Research Organization, Volcani Center
PO Box 6, Bet Dagan 50250, Israel
Tel: 9683388 Fax: 993998
Major: carps, genetics, tilapias
Minor: biotechnology, cryopreservation

184 Dr. Anicia Q. Hurtado-Ponce
 Scientist 1, SEAFDEC Aquaculture Department
 Tigbauan, Iloilo 5021, Philippines
 Tel: 81261; 9230201 to 3 (Manila) Fax: 81340
 Tlx: 29750 SEAFDC PH
 Major: seaweeds
 Minor: brackishwater aquaculture, marine aquaculture

185 Mr. M.G. Hussain
 Chief Scientific Officer, Fisheries Research Institute
 Mymensingh, Bangladesh
 Major: biotechnology, genetics, hatchery technology
 Minor: endocrinology, farming management,
 freshwater aquaculture

186 Mr. Johannes Hutabarat
 Lecturer, Department of Aquaculture and Fisheries
 Diponegoro University, Jl. Hayamwuruk No. 4A
 Semarang, Indonesia
 Tel: 516029 Fax: 318381
 Major: brackishwater aquaculture, crustaceans,
 feed technology
 Minor: environmental impact, finfish, hatchery
 technology, marine aquaculture

187 Mr. Jorgen Hylleberg
 Associate Professor, Institute of Biological Sciences
 Department of Genetics and Ecology
 Århus University
 Ny Munkegade, 8000 Århus C, Denmark
 Tel: 127188 L.5157 Fax: 127191
 Tlx: 64767 AAUSCI DK
 Major: coral reefs, detritus, marine aquaculture

188 Mr. Adekunle A. Idowu
 Senior Biology Teacher
 Anglican Girls' Grammar School
 PO Box 35, Ijebu-Ode, Ogun State, Nigeria
 Major: freshwater aquaculture, nutrition, parasites
 Minor: ecology, zooplankton

189 Dr. John E.G. Ikeorgu
 Coordinator, Farming Systems Program
 National Root Crops Research Institute
 Umudike, PMB 7006, Umuahia, Abia State, Nigeria
 Major: farming systems research, integrated farming
 systems, rice-fish farming systems
 Minor: freshwater aquaculture, waste-fed

190 Mr. Sudhakar T. Indulkar
 Biologist
 Taraporevala Marine Biological Research Station
 Taraporevala Aquarium, N.S. Rd.

Bombay 400002, India
 Tel: 313333; 312061
 Major: brackishwater aquaculture, feed technology,
 freshwater aquaculture
 Minor: hatchery technology, pond management,
 seed production

191 Mr. Iskandar
 Lecturer, Department of Fisheries
 Padjadjaran University
 Jl. Raya Bandung-Sumedang, Km. 21
 Jatiningor 45363, Sumedang, West Java, Indonesia
 Tel: 443998
 Major: freshwater aquaculture, seed production
 Minor: environmental studies

192 Ms. Sri Ismawati
 Researcher
 Balai Penelitian Perikanan Budidaya Pantai
 Jl. Makmur Dg. Sitakka, Maros 90511
 Sulawesi, Selatan, Indonesia
 Tel: 24940
 Major: bivalves, brackishwater aquaculture,
 water quality
 Minor: biotechnology, computer methods, engineering,
 reproductive physiology, site selection, software,
 statistics, stock assessment

193 Dr. Andrej Ivoilov
 Laboratory of Ichthyology
 Biological Institute of St. Petersburg
 Stary Peterhof, Oranienbaumskoye Sch. 2
 198904, St. Petersburg, USSR
 Tel: 1068839
 Major: reproductive physiology, tilapias, water systems
 Minor: freshwater aquaculture, taxonomy

194 Mr. Daniel M. Jamu
 Research Associate
 ICLARM/GTZ Africa Aquaculture Project
 PO Box 229, Zomba, Malaŵi
 Tel: 531274; 531215
 Fax: 528103 Tlx: 4441 BUREAU MI
 Major: pond dynamics
 Minor: environmental studies, integrated farming
 systems

195 Ms. Carmela C. Janagap
 Research Assistant, ICLARM
 MCPO Box 2631, 0718 Makati
 Metro Manila, Philippines
 Tel: 8189283; 8180466; 8175255 Fax: 8163183
 Tlx: 64794 ICLARM PN; 4900010376 ICL UI (USA)

E-mail: (CGNET) ICLARM;
 (SCIENCENET) ICLARM.MANILA
 Major: computer methods, modeling, statistics
 Minor: genetics, software, tilapias, training

196 Mr. Johannes A.L. Janssen
 Project Manager
 BP 76, Antsirabe, Madagascar
 Fax: 49709 Tlx: 22516 FAO MG
 Major: extension, pond management,
 rice-fish farming systems
 Minor: carps, nutrition, reproductive physiology,
 tilapias

197 Ms. Parnsri Jarimopas
 National Inland Fisheries Institute
 Kasetsart University Campus
 Bangkok 10900, Thailand
 Tel: 5794121
 Major: catfishes, seed production, tilapias
 Minor: cages, genetics

198 Dr. Kim Jauncey
 Lecturer, Institute of Aquaculture
 University of Stirling, Stirling FK9 4LA, UK
 Tel: 467892 Fax: 472133 Tlx: 777759
 E-mail: KJ1@STIRLING.AC.UK
 Major: biochemistry, feed technology, nutrition
 Minor: bioenergetics, software, tilapias

199 Dr. V. Jayaprakas
 Reader, Department of Aquatic Biology and Fisheries
 University of Kerala, Beach PO Box 1603
 Trivandrum-Pin 695007, Kerala, India
 Tel: 71138
 Major: biotechnology, brackishwater aquaculture,
 freshwater aquaculture
 Minor: cryopreservation, genetics, nutrition

200 Ms. Anesty P.M. Jayasuriya
 Research Officer, National Aquatic Resources Agency
 Crow Island, Mattakuliya, Colombo 15, Sri Lanka
 Tel: 522000
 Major: coral reefs, seaweeds
 Minor: environmental studies

201 Dr. Yetunde C. Jeje
 Lecturer, Fisheries and Hydrobiology Unit
 Department of Zoology, University of Ibadan
 Ibadan, Nigeria
 Tel: 400550 L.2082
 Major: farming systems research, pond dynamics,
 zooplankton

202 Mr. Andreas Jensen
 FAO/Fisheries Department
 PO Box 710005, Manza, Zambia
 Major: coral reefs, integrated farming systems,
 marine aquaculture
 Minor: environmental studies, extension, lagoons

203 Ms. Narriman S. Jiddawi
 Research Fellow, Institute of Marine Science
 Box 668, Zanzibar, Tanzania
 Tel: 30741; 32184 Fax: 32128
 Tlx: FINANC 57105
 Major: bivalves, finfish, stock assessment
 Minor: coral reefs, marine aquaculture, seaweeds

204 Mr. Bonny B. Jinivone
 Senior Fisheries Officer, Fisheries Department
 8th Floor, Menara Khidmat
 88628 Kota Kinabalu, Sabah, Malaysia
 Tel: 52641; 52511 Fax: 240511
 Major: freshwater aquaculture, seed production
 Minor: cages, integrated farming systems

205 Dr. Alick R. Jones
 Senior Lecturer/Department Head
 Department of Pure and Applied Zoology
 University of Reading, Whiteknights
 PO Box 8, Reading RG6 2AJ, UK
 Major: pollution, water quality
 Minor: freshwater aquaculture

206 Mr. Clive M. Jones
 Senior Biologist, Department of Primary Industries
 Fisheries Research Centre
 Walkamin, Queensland 4872, Australia
 Tel: 933733 Fax: 933903
 Major: crustaceans, freshwater aquaculture,
 pond management
 Minor: detritus, nutrition, production systems

207 Mr. Ronald W. Jones
 57 Victoria St., Ottawa, Ontario, Canada K1M 1S8
 Tel: 7456776
 Major: endocrinology, genetic resources, induced
 spawning, integrated farming systems, pesticides,
 reproductive physiology, rice-fish farming systems,
 seaweeds
 Minor: brackishwater aquaculture, broodstock, ecology,
 environmental studies, freshwater aquaculture

208 Mr. Winston K. Kadongola
 Scientific Officer
 Department of Research and Environmental Affairs

PO Box 30745, Lilongwe 3, Malaŵi
 Tel: 781111 Fax: 781487
 Tlx: 44389 PRES MI
 Major: environmental impact, environmental studies,
 freshwater aquaculture

209 Mr. Edouard Kali-Tchikati
 Chef de Service
 Projet pisciculture rurale de Djoumduna
 BP 675, Brazzaville, Congo
 E-mail: BP 98
 Major: extension, freshwater aquaculture,
 integrated farming systems, tilapias

210 Dr. Jim M. Kapetsky
 Senior Fishery Resources Officer, FAO
 Inland Waters and Aquaculture Service, FIRI
 Rm. F-231, Via delle Terme di Caracalla
 00100 Rome, Italy
 Tel: 57976646 Fax: 5120330
 Tlx: 610181 FAO I
 Major: development, policy, site selection

211 Dr. Andalwisy M. Katule
 Senior Lecturer, Sokoine University of Agriculture
 PO Box 3004, Chuo Kikuu, Morogoro, Tanzania
 Tel: 1515
 Major: bivalves, hatchery technology,
 marine aquaculture

212 Mr. Emmanuel K.W. Kaunda
 Research Assistant
 ICLARM/GTZ Africa Aquaculture Project
 PO Box 229, Zomba, Malaŵi
 Tel: 531274; 531215
 Fax: 528103 Tlx: 4441 BUREAU MI
 Major: modeling, stock assessment
 Minor: statistics

213 Mr. Norbert A. Kayombo
 Ph.D. Candidate, Humboldt University
 National History Museum
 Invalidenstrasse 43, 0-1040 Berlin, Germany
 Tel: 98972665
 Major: bivalves, freshwater aquaculture,
 marine aquaculture

214 Dr. Clive P. Keenan
 Fisheries Biologist, Southern Fisheries Centre
 PO Box 76, Deception Bay, Queensland 4508, Australia
 Tel: 2031444 Fax: 2033517
 Major: conservation, population genetics, taxonomy

Minor: freshwater aquaculture, genetic resources,
 marine aquaculture

215 Mr. Romanus I. Keke
 Lecturer, School of Biological Sciences
 Abia State University, Uturu
 PMB 2000, Okigwe, Nigeria
 Major: induced spawning, nutrition, seed production
 Minor: broodstock, freshwater aquaculture

216 Dr. Craig B. Kensler
 International Consultant
 44 Vale St., Denbigh, Clwyd LL16 3AH, UK
 Tel: 814323
 Major: training
 Minor: brackishwater aquaculture, marine aquaculture

217 Dr. Lotfi F. Khalil
 Assistant Director
 International Institute of Parasitology
 395a Hatfield Rd., St. Albans, Herts, AL4 0XU, UK
 Tel: 833151 Fax: 868721 Tlx: 9312102254 IPG
 Major: diseases, parasites
 Minor: public health

218 Mr. Golam Kibria
 Flat-2, 6 King St., Coburg
 Melbourne, VIC 3058, Australia
 Tel: 3836815
 Major: marine aquaculture, production systems,
 water quality
 Minor: carps, extension, nutrition

219 Mr. Raouf W. Kilada
 Scientific Visitor, University of Texas at Austin
 Marine Science Institute, PO Box 1267, Port Aransas
 Texas 78373-1267, USA
 Tel: 7496795 Fax: 7496749
 Major: coral reefs, ecology, giant clams
 Minor: bivalves, computer methods,
 environmental impact

220 Mr. Favognon J-P. E. Kone
 Service Chief, 04 BP 283, Abidjan 04, Côte d'Ivoire
 Tel: 301046
 Major: ecology, production systems, training
 Minor: conservation, diseases, environmental impact,
 limnology, public health

221 Mr. Hassanai Kongkeo
 Technical Officer, ASEAN-EEC AADCP
 PO Box 1006, Kasetsart University Campus
 Bangkhen, Bangkok 10903, Thailand

List of NTAS Members

Tel: 5613022 Fax: 5613023
 Tlx: 21815 DEPFISH TH
 Major: brackishwater aquaculture, crustaceans,
 farming management
 Minor: diseases, marine aquaculture, pollution

222 Mr. N'Gouan Cyrille Kouassi
 Département piscicole, Institut des Savanes
 01 BP 633, Bouaké 01, Côte d'Ivoire
 Tel: 632170 Fax: 632045
 Major: freshwater aquaculture, zooplankton

223 Mr. Wayne L. Kruckenberg
 Fish Biologist
 Aquatic and Wildlife Resources Division
 Department of Agriculture, PO Box 1771
 Agana, Guam 96910, USA
 Tel: 4773311
 Major: conservation, finfish, pond management
 Minor: brackishwater aquaculture, freshwater
 aquaculture, water systems

224 Mr. Divine Kuma
 Fisheries Officer, Tono Fish Farm
 Irrigation Consultants of the Upper Regions
 PO Box 780, Accra, Ghana
 Tel: 667021 Tlx: 2435 ICOUR GH
 Major: freshwater aquaculture, integrated farming
 systems, rice-fish farming systems
 Minor: pond management, rural sociology,
 seed production

225 Dr. Arumugam K. Kumaraguru
 Reader, School of Energy
 Environment and Natural Resources
 Madurai Kamaraj University
 Madurai, Tamil Nadu 625021, India
 Tel: 85265
 Major: bioenergetics, coral reefs, ecophysiology
 Minor: environmental studies, limnology, pollution

226 Dr. Andreas Kunzmann
 Assistant Professor, Fisheries Faculty
 Bung Hatta University, Ulak Jl. Sumatera Karang
 25114 Padang SumBar, Indonesia
 Tel: 31678; 55332 L.200 to 6
 Fax: 55475; 51591 Tlx: 55156 ADP PD
 Major: behavior, ecophysiology, growth
 Minor: coral reefs, seaweeds, stock assessment

227 Dr. Methil N. Kutty
 Consultant, PRASADAM, 5/383 Puthur
 Palakkad 678001, Kerala State, India

Tel: 28882
 Major: ecophysiology, freshwater aquaculture, training
 Minor: brackishwater aquaculture, carps,
 curriculum development

228 Mr. Kyaw Myint Oo
 Lecturer, Department of Zoology, Yangon University
 University PO, Yangon, Myanmar
 Tel: 62113
 Major: environmental studies
 Minor: pesticides, pollution

229 Mr. Philippe E. La Hausse De Lalouviere
 Project Manager
 Management and Development Company Ltd.
 Gentilly, Moka, Mauritius
 Tel: 4334225 Fax: 4334145 Tlx: 4330
 Major: freshwater aquaculture
 Minor: ecology

230 Mr. Maciu Lagibalavu
 Principal Fisheries Officer, Fisheries Department
 Ministry of Primary Industries, Box 358, Suva, Fiji
 Tel: 361122 Fax: 351079
 Major: population genetics
 Minor: computer methods, policy

231 Dr. Kuldeep K. Lal
 Scientist, National Bureau of Fish Genetic Resources
 2, Bagambari Housing Scheme, Shivanagar, Allahapur
 Allahabad 211006, U.P., India
 Major: reproductive physiology
 Minor: biotechnology, cryopreservation

232 Dr. T.J. Lam
 Professor, Department of Zoology
 National University of Singapore
 Lower Kent Ridge, Singapore 0511
 Tel: 7722692 Fax: 7792486 Tlx: UNISPO RS 33943
 Major: endocrinology, induced spawning,
 seed production
 Minor: broodstock, nutrition

233 Mr. Danilo B. Largo
 Section Head, Marine Biology Section
 University of San Carlos
 Talamban, Cebu City 6000, Philippines
 Tel: 85021 to 4
 Major: growth, seaweeds, stock assessment
 Minor: conservation, coral reefs, microbiology,
 phytoplankton

234 Mr. Jérôme Lazard
 Director, Programme aquaculture et pêche
 Centre de coopération international en recherche
 agronomique pour le développement
 c/o Cemagref, BP 5095
 34033 Montpellier, Cedex 1, France
 Tel: 67046300 Fax: 67635795
 Major: freshwater aquaculture, production systems,
 tilapias
 Minor: brackishwater aquaculture, cages,
 pond management

235 Mr. Le Tanh Duong
 Deputy Director
 Mekong Delta Farming Systems Research
 and Development Center
 University of Cantho, Cantho, Vietnam
 Tel: 24517 Fax: 23407
 Major: freshwater aquaculture, integrated farming
 systems, rice-fish farming systems
 Minor: environmental studies, socioeconomics,
 software

236 Mr. Le Thanh Hung
 Deputy Dean, The Faculty of Fisheries
 The University of Agriculture and Forestry
 Thu Duc, Ho Chi Minh City, Vietnam
 Major: brackishwater aquaculture, crustaceans,
 integrated farming systems
 Minor: nutrition

237 Dr. Le Thanh Luu
 Director, Transfer of Technology Center
 Research Institute for Aquaculture
 No. 1 Dinh Bang, Tien Son, Ha Bac, Vietnam
 Tel: 271368 Fax: 59257 (c/o FAO Hanoi)
 Major: brackishwater aquaculture, crustaceans,
 feed technology, nutrition
 Minor: farming systems research, freshwater
 aquaculture, integrated farming systems

238 Mr. Le Xuan Sinh
 Researcher, Faculty of Fisheries
 University of Cantho, Cantho, Vietnam
 Major: brackishwater aquaculture, economics
 Minor: farming systems research

239 Mr. Marc Legendre
 ORSTOM, 911 Avenue Agropolis, BP 5065
 34032 Montpellier, Cedex 1, France
 Tel: 67046360 Fax: 67547800
 Tlx: ORST MPL 485507F
 E-mail: LEGENDRE@ORSTOM.ORSTOM.FR

Major: catfishes, genetic resources,
reproductive physiology
Minor: growth, production systems, tilapias

240 Dr. James L. Lester
Interim Dean/Professor
University of Houston-Clear Lake
2700 Bay Area Boulevard, Houston, Texas 77058, USA
Tel: 2833700 Fax: 2833707
E-mail: LESTER@CLA.CL.UH.EDU
Major: population genetics, quantitative genetics
Minor: crustaceans, genetic resources, tilapias

241 Mr. Li Kangmin
Associate Professor
Asian Pacific Regional Research and Training Centre
for Integrated Fish Farming, Wuxi 214081, China
Tel: 601424; 601434 Fax: 203304
Tlx: 362002 WXHB CN
Major: environmental studies
Minor: phytoplankton, rice-fish farming systems

242 Dr. Li Sifa
Professor, Department of Aquaculture
Shanghai Fisheries University
334 Jun Gong Rd., Shanghai 200090, China
Tel: 5431090 Fax: 5434358
Major: conservation, freshwater aquaculture,
genetic resources

243 Dr. Clive Lightfoot
Senior Scientist, ICLARM
MCPO Box 2631, 0718 Makati
Metro Manila, Philippines
Tel: 8189283; 8180466; 8175255 Fax: 8163183
Tlx: 64794 ICLARM PN; 4900010376 ICL UI (USA)
E-mail: (CGNET) ICLARM;
(SCIENCENET) ICLARM.MANILA
Major: farming systems research, integrated farming
systems, rice-fish farming systems
Minor: ecology, environmental impact, socioeconomics

244 Dr. C. Kwei Lin
AIT, GPO Box 2754, Bangkok 10501, Thailand
Tel: 5245458 Fax: 5246200 Tlx: 84276 TH
Major: pond dynamics, tilapias, water quality
Minor: brackishwater aquaculture,
environmental studies

245 Dr. Otomar Linhart
Associate Professor
Reproduction et génétique des poissons
Laboratoire de biologie cellulaire CHRU

49033 Angers Cedex 1, France
Tel: 41338105; 41354735 Fax: 41354138
Major: carps, catfishes, freshwater aquaculture
Minor: broodstock, cryopreservation, genetics,
population genetics, reproductive physiology

246 Dr. David C. Little
Assistant Professor
Division of Agricultural and Food Engineering
AIT, GPO Box 2754, Bangkok 10501, Thailand
Tel: 5245473 Fax: 5245473 Tlx: 84276 TH
Major: farming systems research, integrated farming
systems, tilapias
Minor: induced spawning, rice-fish farming systems,
waste-fed

247 Dr. David Timothy J. Littlewood
Research Fellow, Department of Palaeontology
National History Museum, Cromwell Rd.
London SW7 5BD, UK
Tel: 9389228 Fax: 9389277
E-mail: MBDTL @ UK.AC.DARESBUY.DLVH
Major: bivalves, marine aquaculture, taxonomy
Minor: pathology

248 Ms. Hui Liu
Engineer, Beijing Aquatic Science Institute
Beijing 100075, China
Tel: 7226668 Fax: 3014181
Major: freshwater aquaculture, genetics,
reproductive physiology
Minor: carps, cryopreservation, tilapias

249 Dr. Khalid P. Lone
Associate Professor, Department of Zoology
Punjab University, Quaid-i-Azam Campus
Lahore 54590, Pakistan
Tel: 864028
Major: biochemistry, bioenergetics, endocrinology,
growth, nutrition, reproductive physiology
Minor: brackishwater aquaculture, carps,
environmental studies, marine aquaculture,
pollution, tilapias

250 Mr. Nelson A. Lopez
Supervising Aquaculturist
Bureau of Fisheries and Aquatic Resources
860 Arcadia Bldg., Quezon Ave.
Quezon City, Philippines
Tel/Fax: 987805
Major: policy, resource economics
Minor: milkfish

251 Mr. Alessandro Lovatelli
Mariculture Expert, FAO/AGUILA II
c/o FAO-Representative, Cerro Maika 115
Lomas de Chapultepec 11000, Mexico
Tel: 6817866; 6837022 Tlx: 5205755
Tlx: 1772151 FAOMME
Major: bivalves, marine aquaculture, training
Minor: environmental studies, hatchery technology,
trade

252 Dr. John S. Lucas
Associate Professor, Zoology Department
James Cook University, Townsville
Queensland 4811, Australia
Tel: 814412 Fax: 251570
Major: bivalves, giant clams, marine aquaculture

253 Ms. Susan C. Lumanlan-Mayo
Research Staff
Bureau of Fisheries and Aquatic Resources
860 Arcadia Bldg., Quezon Ave.
Quezon City, Philippines
Tel/Fax: 987871
Major: diseases, immunology, parasites, pathology
Minor: brackishwater aquaculture, broodstock,
farming systems research

254 Mr. Tula M. Luna
Apartado 18-0202, Lima, Perú
Tel: 352035 L.290
Major: freshwater aquaculture, integrated farming
systems, nutrition
Minor: extension, feed technology, tilapias

255 Mr. Henry B.O. Lung'aya
Assistant Research Officer
Kenya Marine and Fisheries Research Institute
PO Box 81615, Mombasa, Kenya
Major: catfishes, freshwater aquaculture, tilapias
Minor: broodstock, endocrinology, pond management

256 Dr. Julie M. Macaranas
Post-Doctoral Fellow
Centre for Biological Population Management
Queensland University of Technology
2 George St., Brisbane, Queensland 4001, Australia
Tel: 8641340 Fax: 8641640
Major: genetics, quantitative genetics
Minor: biochemistry, physiology

257 Dr. Marcel A.M. Machiels
Lecturer, Department of Fish Culture and Fisheries
Wageningen Agricultural University, PO Box 338

6700 AH Wageningen, The Netherlands
Tel: 83801 E-mail: MACHIELS@ZOA.WAU.NL
Major: reservoirs, statistics, stock assessment
Minor: computer methods, foodchains, modeling

258 Dr. Kevan L. Main
Director
Center for Tropical and Subtropical Aquaculture
The Oceanic Institute, Makapuu Pt.
Waimanalo, HI 96795, USA
Tel: 2597951 Fax: 2598395
Major: brackishwater aquaculture, freshwater
aquaculture, marine aquaculture
Minor: diseases, genetics, giant clams

259 Dr. Graham C. Mair
Research Consultant, Freshwater Aquaculture Center
Central Luzon State University, Muñoz
Nueva Ecija 3120, Philippines
Tel/Fax: 3017323
Major: development, genetics, tilapias
Minor: biotechnology, induced spawning,
population genetics

260 Mr. Alfred O. Maluwa
Fisheries Research Officer
Central and Northern Regions Fish Farming Project
PO Box 700, Mzuzu, Malawi
Tel: 332794; 332692 Fax: 335051
Major: induced spawning, integrated farming systems,
tilapias
Minor: freshwater aquaculture, hatchery technology,
seed production

261 Mr. Jose V. Manzano
Professor, College of Fisheries, Bicol University
Tabaco, Albay 4511, Philippines
Tel: 672
Major: brackishwater aquaculture

262 Ms. Virginia B. Manzano
Professor, College of Fisheries, Bicol University
Tabaco, Albay, Philippines
Tel: 672
Major: brackishwater aquaculture

263 Mr. Rafael R. Mapunda
Principal, Freshwater Fisheries Institute
Box 1213, Mwanza, Tanzania
Tel: 2894
Major: biotechnology, farming systems research,
nutrition
Minor: hatchery technology, tilapias, training

264 Mr. Jimmy T. Masagca
Assistant Professor
College of Agriculture and Fisheries
Virac, Catanduanes 4800, Philippines
Tel: 473
Major: environmental studies, genetics
Minor: genetic resources

265 Dr. Peter B. Mather
Lecturer, School of Life Science
Queensland University of Technology
2 George St., Brisbane 4001, Australia
Tel: 8641737 Fax: 8641640
Major: freshwater aquaculture, genetics, tilapias
Minor: brackishwater aquaculture, genetic resources,
stock assessment

266 Dr. Christopher P. Mathews
International Consultant, Northfield House
Cheselbourne Near Dorchester, Dorset DT2 7NT, UK
Tel: 77133
Major: policy, socioeconomics, stock assessment

267 Dr. Toshihiko Matsusato
Prof. Officer, FAO-FIRI
Rm. F-236, Via delle Terme di Caracalla
00100 Rome, Italy
Tel: 57976473
Major: diseases, parasites, pathology
Minor: immunology, microbiology, pesticides

268 Dr. Brendan J. McAndrew
Senior Lecturer, Institute of Aquaculture
University of Stirling
Stirling FK9 4LA, Scotland, UK
Tel: 467884 Fax: 473211 Tlx: 777759
Major: genetic resources, genetics, tilapias
Minor: cryopreservation, population genetics,
taxonomy

269 Mr. Carlos E. Medina-Reyna
Research Assistant, Apartado Postal 113
70670 Salina Cruz, Oaxaca, Mexico
Major: brackishwater aquaculture, environmental
studies, farming management, lagoons, marine
aquaculture, pond management, statistics, stock
assessment, water quality, zooplankton
Minor: computer methods, feed technology, hatchery
technology, induced spawning, nutrition,
reproductive physiology, seed production, tilapias

270 Mr. Joaquin P. Mellado
Lecturer/Researcher, Apartado Postal 742

Guaymas, Sonora, Mexico
Major: finfish, marine aquaculture, pathology

271 Mr. Khalid A. Memon
Managing Director
Aquaculture Technologies (PVT) Ltd.
18 B, Cooperative Housing Society, Makli
73150 Thatta, Sindh, Pakistan
Tel: 267 Fax: 839
Major: carps, freshwater aquaculture, freshwater
prawns, hatchery technology
Minor: farming management, feed technology, tilapias

272 Mr. Kriangsak Meng-Umpun
Head of Department/Instructor
Department of Fisheries Technology
Faculty of Agricultural Production
Maejo Institute of Agriculture Technology
Sansai, Chiangmai 50290, Thailand
Tel: 498178 Fax: 498862
Major: endocrinology, induced spawning
Minor: integrated farming systems

273 Ms. Zuridah Merican
Post-Graduate Student, Department of Zoology
National University of Singapore
Lower Kent Ridge, Singapore 0511
Tel: 7722708 Fax: 7792486
Major: nutrition
Minor: crustaceans, finfish

274 Dr. Bernard O. Mgbenka
Senior Lecturer, Department of Zoology
University of Nigeria, Nsukka, Enugu State, Nigeria
Major: catfishes, freshwater aquaculture, nutrition
Minor: diseases, environmental impact, feed
technology, hatchery technology, pollution,
waste-fed, water quality

275 Mr. Wilson Mhlanga
Ecologist, Lake Kariba Fisheries Research Institute
PO Box 75, Kariba, Zimbabwe
Tel: 2936 to 7 Fax: 2938
Major: cages, freshwater aquaculture
Minor: pollution

276 Dr. Jean-Claude Micha
Professor, Unité d'écologie des eaux douces
Facultés universitaires
rue de Bruxelles 61, B-5000 Namur, Belgium
Tel: 724361 Fax: 724420
Major: freshwater aquaculture, integrated farming

systems, stock assessment
Minor: environmental studies, nutrition, pollution

277 Dr. Ana Milstein
Researcher, Fish and Aquaculture Research Station
Dor M.P. Hof Hacarmel 30820, Israel
Tel: 390652 Fax: 993998
Major: freshwater aquaculture, limnology,
water quality
Minor: foodchains, pond dynamics, statistics

278 Mr. Min Kuanhong
Trainer
Asia Pacific Regional Research and Training Centre
for Integrated Fish Farming, Wuxi 214081, China
Tel: 601424 Fax: 603304
Major: integrated farming systems, extension, training
Minor: curriculum development, farming systems
research, freshwater aquaculture

279 Ms. S. Suzanne M. Mingoa
University Researcher, Marine Science Institute
University of the Philippines, Diliman 1101
Quezon City, Philippines
Tel: 989676 to 9 L.7417 Fax: 974355
Tlx: UPMARSCI MANILA
Major: ecophysiology, giant clams, marine aquaculture
Minor: broodstock, extension, growth

280 Mr. Dan Mires
Chief of Aquaculture Division, Fisheries Department
Ministry of Agriculture
Hakyria, Tel Aviv 61070, Israel
Tel: 6971546 Fax: 6971451
Major: freshwater aquaculture, statistics
Minor: tilapias

281 Dr. Samir Y. Mishrigi
Assistant Professor/Head of Aquaculture Department
PO Box 1489, Khartoum, Sudan
Major: freshwater aquaculture, pond management,
tilapias
Minor: bioenergetics, ecology, ecophysiology

282 Dr. Arunabha Mitra
Associate Professor
Agricultural Engineering Department
Indian Institute of Technology
Kharagpur 721302, India
Tel: 2221 to 4 Fax: 2303
Tlx: 06401-201 ITKG IN
E-mail: SHAKTI@ITKJPSYS320!
Major: brackishwater aquaculture, cryopreservation,

wastewater (sewage) reuse
Minor: environmental studies, hatchery technology,
integrated farming systems

283 Mr. Andrew Mittelman
Agro- and Community Forestry Project,
Save the Children
PO Box 49, Nakhon, Sawan 60000, Thailand
Tel: 221385 Fax: 226213
Major: habitat restoration, integrated farming systems,
policy
Minor: behavior, development, ecology

284 Dr. M.V. Mohan
Assistant Professor, Rice Research Station
Kerala Agricultural University, Vyttila
Kochi 682019, India
Tel: 45063
Major: farming systems research, pond dynamics,
tilapias
Minor: bioenergetics, brackishwater aquaculture,
stock assessment

285 Dr. Krit Mongkonpunya
Associate Professor, Department of Zoology
Faculty of Science, Kasetsart University
Bangkok 10900, Thailand
Tel: 5791022 Fax: 5790514
Major: conservation, reproductive physiology
Minor: biotechnology, catfishes

286 Mr. Danilo C. Monje
Instructor, Freshwater Aquaculture Center
Central Luzon State University
Muñoz, Nueva Ecija 3120, Philippines
Tel: 3017323
Major: hatchery technology, induced spawning,
integrated farming systems
Minor: cages, carps, tilapias

287 Ms. Priscila M. Monje
Instructor/Research Biologist
Freshwater Aquaculture Center
Central Luzon State University
Muñoz, Nueva Ecija 3120, Philippines
Tel: 3017323
Major: freshwater aquaculture
Minor: integrated farming systems, pesticides,
post-harvest technology, water quality

288 Mr. Carlos Manuel B. Montenegro
Calle 18A N. 41-82, Pasto Nariño, Colombia
Tel: 223539; 221933

Major: pond management
Minor: freshwater aquaculture

289 Dr. Jacques J. Moreau
University Professor, Fisheries Department
ENSA, 145 Avenue de Muret, 31076 Toulouse, France
Tel: 428398 Fax: 423029
Major: ecology, environmental impact,
stock assessment
Minor: foodchains, growth, limnology, statistics,
tilapias

290 Mr. Pierre Morissens
Programme Chief, Institut des Savanes
BP 621, Bouaké 01, Côte d'Ivoire
Tel: 632170 Fax: 632045
Major: brackishwater aquaculture, production systems,
tilapias
Minor: farming systems research, foodchains,
pond dynamics

291 Mr. Julio Moscoso
Los Pinos 259, Urb. Camacho, La Molina, Perú
Tel: 371077 Fax: 378289
E-mail: CEPIS@CEPIS.PE
Major: tilapias, wastewater (sewage) reuse
Minor: farming systems research, integrated farming
systems

292 Mr. Shaun M. Moss
Graduate Student, Department of Zoology
University of Hawaii, Honolulu, HI 96822, USA
Tel: 9568617 Fax: 9569812
Major: brackishwater aquaculture, ecology
Minor: pond dynamics

293 Mr. Orton V. Msiska
Principal Scientific Officer
Department of Research and Environmental Affairs
PO Box 30745, Lilongwe, Malaŵi
Tel: 734011
Major: catfishes, quantitative genetics, tilapias
Minor: conservation, farming systems research,
genetic resources

294 Dr. John L. Munro
Director, ICLARM
MCPO Box 2631, 0718 Makati
Metro Manila, Philippines
Tel: 8189283; 8180466; 8175255 Fax: 8163183
Tlx: 64794 ICLARM PN; 4900010376 ICL UI (USA)
E-mail: (CGNET) ICLARM; (SCIENCENET)
ICLARM.MANILA

Major: coral reefs, giant clams, production systems
Minor: computer methods, ecology, marine aquaculture, stock assessment

295 Mr. Masayoshi Murakoshi
Senior Researcher
Okinawa Prefectural Sea Farming Center
853-1, Ohama, Motobu Town, Okinawa 905-02, Japan
Tel: 475411 Fax: 475412
Major: bivalves, reproductive physiology, seed production
Minor: coral reefs, marine aquaculture

296 Dr. Shivananda H. Murthy
Assistant Professor, Department of Aquaculture
College of Fisheries, PB No. 527
Mangalore 575002, Karnataka, India
Major: freshwater aquaculture, nutrition
Minor: brackishwater aquaculture

297 Dr. Natarajan Murugan
Professor, Department of Zoology
Madurai College (Autonomous)
Madurai 625011, India
Tel: 22454
Major: freshwater aquaculture
Minor: zooplankton

298 Mr. Ahmed Mustafa
Ph.D. Student/Research Assistant
Department of Biology, University of New Brunswick
Bag Service 45111, Fredericton, N.B., Canada E3B 6E1
Tel: 4534583 to 4 Fax: 4533583
E-mail: Z36QUNB.CA
Major: freshwater aquaculture, marine aquaculture, parasites
Minor: ecology, farming management, training

299 Mr. Jaston T. Mutambo (Deceased)
Aquaculture Research Officer
National Aquaculture Centre
PO Box 44, Domasi, Malaŵi
Tel: 531215 Fax: 523058 (Attn: MAGFAD)
Major: pond management
Minor: freshwater aquaculture

300 Mr. P. Muthiah
Scientist, Central Marine Fisheries Research Institute
90 North Beach Rd., Tuticorin-1, India
Major: bivalves, marine aquaculture
Minor: induced spawning

301 Ms. Uthairat Na-Nakorn
Associate Professor, Department of Aquaculture
Faculty of Fisheries, Kasetsart University
Bangkok 10903, Thailand
Tel: 5792924 Fax: 5795579
Major: biotechnology, genetics, quantitative genetics
Minor: induced spawning

302 Dr. P. Nammalwar
Senior Scientist/Project Leader, Regional Centre of
Central Marine Fisheries Research Institute
Marine Fisheries Post, Mandapam
Ramanathapuram District
Tamil Nadu 623520, India
Tel: 39443; 39456
Major: finfish, marine aquaculture, seed production
Minor: broodstock, integrated farming systems, pollution

303 Dr. Mudnakudu C. Nandeesha
Assistant Professor
Department of Aquaculture, College of Fisheries
Mangalore 575002, Karnataka, India
Tel: 27834 Fax: 35069; 35079; 22395
Major: hatchery technology, induced spawning, nutrition
Minor: broodstock, farming systems research, freshwater aquaculture

304 Mr. Warwick J. Nash
Abalone Biologist, Sea Fisheries Division
Crayfish Point, Tarooma, Tasmania 7053, Australia
Tel: 277277 Fax: 278035
Major: marine aquaculture, stock assessment

305 Mr. A.K.V. Nasser
Scientist, Central Marine Fisheries Research Institute
PB No. 2704, Kochi 682031, India
Tel: 369876 L.286
Major: coral reefs, marine aquaculture, stock assessment
Minor: computer methods, ecology, population genetics

306 Dr. Ted Needham
Director of Aquaculture Operations
British Columbia Packers Ltd.
PO Box 5000, Vancouver
British Columbia, Canada V6B 4AP
Tel: 2413456 Fax: 2771858 Tlx: 04-355588
Major: farming management, freshwater aquaculture, marine aquaculture
Minor: cages, diseases, fisheries enhancement

307 Mr. Michael B. New
Coordinator, ASEAN-EEC AADCP
PO Box 1006, Bangkok 10903, Thailand
Tel: 5613022 Fax: 5613023
Major: crustaceans, development, nutrition
Minor: brackishwater aquaculture, feed technology, freshwater aquaculture

308 Dr. Davies H. Ng'ong'ola
Senior Lecturer, Bunda College of Agriculture
PO Box 219, Lilongwe, Malaŵi
Tel: 277222 Fax: 277364
Major: farming systems research, marketing, resource economics
Minor: computer methods, economics, socioeconomics

309 Mr. David Nguenga
Research Officer, Institute of Animal Research
PO Box 255, Foumban, Cameroon
Tel: 482124
Major: integrated farming systems, seed production, water quality

310 Mr. Nguyen Anh Tuan
Dean, Faculty of Fisheries
University of Cantho, Cantho, Vietnam
Tel: 20961; 20237 Fax: 22101
Tlx: 812316 MEKIC VT
Major: freshwater aquaculture, pesticides, rice-fish farming systems

311 Mr. Nguyen Duy Can
Research Assistant
Mekong Delta Farming Systems Research
and Development Center
University of Cantho, Cantho, Vietnam
Tel: 24517
Major: environmental studies, farming management, farming systems research
Minor: integrated farming systems, modeling, rice-fish farming systems

312 Mr. Nguyen Quang Tuyen
Researcher, Agricultural Systems Program
Faculty of Agriculture, Chiangmai University
Chiangmai 50002, Thailand
Fax: 210000
Major: freshwater aquaculture, integrated farming systems, rice-fish farming systems
Minor: environmental impact, farming systems research, resource economics, stock assessment, training

313 Mr. Nguyen Van Sanh
Mekong Delta Farming System Research
and Development Center
University of Cantho, Cantho, Vietnam
Tel: 24517
Major: integrated farming systems, modeling,
socioeconomics
Minor: marketing, production systems, rural sociology

314 Mr. Plutomeo M. Nieves
Assistant Professor, Bicol University -
Regional Institute of Fisheries Technology
Tabaco, Albay 4916, Philippines
Major: diseases, hatchery technology, nutrition

315 Dr. Charoen Nitithamyong
Lecturer, Department of Marine Science
Faculty of Sciences, Chulalongkorn University
Prathum-one, Bangkok 10330, Thailand
Tel: 2516968; 2511951 Fax: 2511951
Major: bioenergetics, ecology, foodchains,
stock assessment
Minor: foodchains, software, statistics

316 Mr. Anthony A. Nlewadim
Research Officer
Nigerian Institute for Oceanography
and Marine Research
PMB 5122, Port Harcourt, Rivers State, Nigeria
Major: tilapias
Minor: brackishwater aquaculture, integrated farming
systems

317 Mr. Christopher G. Nugent
Chief Technical Advisor, FAO
PO Box 3730, Harare, Zimbabwe
Tel: 703820 Fax: 729563 Tlx: 26040
Major: extension, integrated farming systems,
reservoirs

318 Mr. Francis Oduro-Boateng
Project Officer, Technology Consultancy Center
University of Science and Technology, Kumasi, Ghana
Tlx: 2555 UST GH
Major: freshwater aquaculture, tilapias
Minor: cages

319 Mr. Paul C. Ofojekwu
Lecturer/Research Fellow, Department of Zoology
University of Jos, PMB 2084, Jos Plateau State, Nigeria
Major: hatchery technology, nutrition,
pond management

320 Mr. Patrick K. Ofori-Danson
Research Officer, Institute of Aquatic Biology
PO Box 38, Achimota, Ghana
Tel: 775511 (Accra) Fax: 772642 (Accra)
Tlx: 3047 BTH24 GH
Major: ecology, growth, stock assessment
Minor: population genetics

321 Mr. Nyarko D. Ohemeng
Deputy Director, Irrigation Development Authority
PO Box M154, Accra, Ghana
Tel: 662050 Tlx: 2479 IDA GH
Major: freshwater aquaculture, rice-fish farming
systems
Minor: environmental studies

322 Dr. Daniel O. Okeyo
Senior Lecturer, Department of Zoology
Kenyatta University, PO Box 43844, Nairobi, Kenya
Tel: 810901 L.305
Major: freshwater aquaculture, integrated farming
systems, tilapias
Minor: conservation, growth, pond dynamics

323 Dr. Gideon C. Okpokwasili
Senior Lecturer, Department of Microbiology
University of Port Harcourt
PMB 5323, Port Harcourt, Nigeria
Major: environmental impact, microbiology,
water quality
Minor: diseases, pollution, tilapias

324 Mr. Emmanuel A. Okrah
Lecturer, Institute of Renewable Natural Resources
University of Science and Technology, Kumasi, Ghana
Fax: 5353 Tlx: 2555 UST GH
Major: catfishes, induced spawning, nutrition
Minor: finfish, freshwater aquaculture, seed production

325 Dr. Eurico C. Oliveira
Professor, Institute of Biociencias
University of Sao Paulo
C. Postal 11461, S. Paolo 05499, S.P., Brazil
Tel: 8136944 L.2540 Fax: 8154272
E-Mail: ECDOFILH AT BRUSPVM
Major: conservation, marine aquaculture, seaweeds
Minor: ecology, ecophysiology, taxonomy

326 Mr. Victor A. Omojola
c/o Mr. E.O. Olaifa, Commerce Bank, PLC
PO Box 73715, Victoria Island, Lagos, Nigeria
Major: carps, catfishes, freshwater aquaculture,

integrated farming systems, pond management,
tilapias
Minor: computer methods, ecology, hatchery
technology, modeling, pond dynamics, software

327 Mr. Isaac T. Omoniyi
Lecturer II, Department of Zoology
Ondo State University, PMB 5363, Ado-Ekiti, Nigeria
Major: finfish, freshwater aquaculture, tilapias
Minor: nutrition, seed production

328 Mr. Edosa Omoregie
Lecturer, Fisheries Research Unit
Department of Zoology
University of Jos, PMB 2084, Jos, Nigeria
Major: nutrition, pollution, tilapias
Minor: physiology

329 Mr. Christie A. Onadeko
Lecturer Grade I, Department of Biological Sciences
University of Lagos, Akoka, Lagos, Nigeria
Tel: 821782
Major: brackishwater aquaculture, feed technology,
freshwater aquaculture, marine aquaculture
Minor: farming systems research, lagoons, limnology,
pond management

330 Mr. Boguslaw F. Ostrowski
Research Officer, Marine Science Department
Universiti Kebangsaan Malaysia, Kampus Sabah
Locked Bag 62, 88996 Kota Kinabalu, Sabah, Malaysia
Major: induced spawning, marine aquaculture,
reproductive physiology
Minor: coral reefs, cryopreservation, ecology

331 Mr. Mark Owusu-Frimpong
Research Officer, Institute of Aquatic Biology
PO Box 38, Achimota, Ghana
Tel: 775511 (Accra) Fax: 77655 (Accra)
Major: catfishes, hatchery technology, tilapias
Minor: behavior, extension, farming systems research

332 Mr. Benjy A. Oyedeji
Aquaculturist, PO Box 27268, Agodi Post Office
Ibadan, Oyo State, Nigeria
Tel: 716016
Major: freshwater aquaculture

333 Ms. Helida A. Oyieke
Senior Research Officer I
Kenya Marine and Fisheries Research Institute
PO Box 81615, Mombasa, Kenya
Tel: 472245 Fax: 472215

Major: ecology, seaweeds, taxonomy
Minor: marine aquaculture, site selection

334 Mr. Jose O. Paclibare
Aquaculturist II
Bureau of Fisheries and Aquatic Resources
860 Arcadia Bldg., Quezon Ave.
Quezon City, Philippines
Tel: 987871
Major: diseases
Minor: microbiology

335 Dr. P. Pakshirajan
Senior Technical Assistant
Department of Agriculture and Cooperatives
Rm. 482A Krishi Bhavan
New Delhi 110001, India
Tel: 388911 L.4682 Fax: 386004
Major: brackishwater aquaculture, farming
management, integrated farming systems
Minor: extension, farming systems research,
marine aquaculture

336 Mr. K. Palanisamy
Assistant Development Officer
Technical Services Department
National Bank for Agriculture and Rural Development
PB No. 6552, Worli, Bombay 400018, India
Tel: 4924993 Fax: 4940111
Major: brackishwater aquaculture, freshwater
aquaculture, integrated farming systems
Minor: genetics, marine aquaculture,
production systems

337 Ms. Rani Palaniswamy
Scientist, Central Marine Fisheries Research Institute
TRC of CMFRI, Tuticorin 628001, India
Tel: 22274; 21515
Major: broodstock, induced spawning
Minor: bivalves

338 Mr. Pan Feng
Research Assistant
Freshwater Fisheries Research Centre
Baojieqiao, Wuxi, Jiangsu, China
Tel: 601424 Tlx: 362002 WXHB CN
Major: biotechnology, genetics, tilapias
Minor: biochemistry, computer methods,
hatchery technology

339 Ms. Ma. Josefa R. Pante
University Researcher, Marine Science Institute
University of the Philippines

Diliman 1101, Quezon City, Philippines
Tel: 995071 to 9; 976061 to 9 L.7447 Fax: 974355
Major: population genetics, quantitative genetics
Minor: crustaceans, tilapias

340 Ms. Marcela S. Pascual
Researcher, Instituto de Biologia Marina Y Pesquera
C.C. 104 (8520) San Antonio Oeste, Argentina
Tel/Fax: 21002
Major: bivalves
Minor: ecology, marine aquaculture

341 Dr. Swapan K. Paul
Senior Scientist Officer
Fisheries Research Institute-Third Fisheries Project
Santahar, Bogra, Bangladesh
Major: broodstock, nutrition, reproductive physiology
Minor: limnology, pollution, stock assessment

342 Dr. Daniel M. Pauly
Director, ICLARM
MCPO Box 2631, 0718 Makati
Metro Manila, Philippines
Tel: 8189283; 8180466; 8175255 Fax: 8163183
Tlx: 64794 ICLARM PN; 4900010376 ICL UI (USA)
E-mail: (CGNET) ICLARM;
(SCIENCENET) ICLARM.MANILA
Major: growth
Minor: modeling

343 Mr. Malcolm G. Pearce
Technician
Queensland Department of Primary Industries
Northern Fisheries Research Centre, Box 5396, CMC
Cairns, Queensland, Australia
Major: behavior, marine aquaculture, pond dynamics
Minor: coral reefs, physiology, water quality

344 Dr. David J. Penman
Research Fellow, Institute of Aquaculture
University of Stirling, Stirling FK9 4LA, UK
Tel: 467901 Fax: 472133 Tlx: 777759
Major: biotechnology, genetics
Minor: freshwater aquaculture, genetic resources,
population genetics

345 Dr. Julio E. Perez
Professor, Instituto Oceanografico de Venezuela
Universidad de Oriente
Apartado Postal 245, Cumana, Venezuela
Tel/Fax: 653606

Major: bivalves, genetics, tilapias
Minor: genetic resources, population genetics,
quantitative genetics

346 Dr. Peter C. Phillips
Research Scientist, Clark Atlanta University
Box 271, Atlanta, GA 30314, USA
Tel: 8808811 Fax: 8808522
Major: pesticides, tilapias, wastewater (sewage) reuse
Minor: detritus, integrated farming systems, waste-fed

347 Dr. Raul H. Piedrahita
Associate Professor
Department of Agriculture Engineering
University of California, Davis, CA 95616, USA
Tel: 7522780 Fax: 7522640
E-mail: UCDAENG@UCDAVIS.BITNET
Major: engineering, modeling, water quality
Minor: integrated farming systems, phytoplankton,
pond dynamics

348 Dr. Robert S. Pomeroy
Research Scientist, ICLARM
MCPO Box 2631, 0718 Makati
Metro Manila, Philippines
Tel: 8189283; 8180466; 8175255 Fax: 8163183
Tlx: 64794 ICLARM PN; 4900010376 ICL UI (USA)
E-mail: (CGNET) ICLARM;
(SCIENCENET) ICLARM.MANILA
Major: economics
Minor: integrated farming systems, policy

349 Mr. Victor Pouomogne
Researcher, Fishculture Research Station
PO Box 255, Foumban, Cameroon
Major: nutrition, tilapias

350 Mr. Anders F. Povlsen
Fisheries Biologist, FAO Field Office
PO Box 305, Madang, Papua New Guinea
Tel: 823011 Fax: 823306
Major: ecology, freshwater aquaculture,
reproductive physiology
Minor: conservation, integrated farming systems,
pollution

351 Dr. Howard W. Powles
Fisheries Specialist, CIDA-RNP
200 Portage, Hull, Quebec, Canada K1A 0G4
Tel: 9976772 Fax: 9534676
Major: farming management, farming systems research,
production systems

352 Dr. Mark Prein
Associate Scientist, ICLARM
MCPO Box 2631, 0718 Makati
Metro Manila, Philippines
Tel: 8189283; 8180466; 8175255 Fax: 8163183
Tlx: 64794 ICLARM PN; 4900010376 ICL UI (USA)
E-mail: (CGNET) ICLARM;
(SCIENCENET) ICLARM.MANILA
Major: computer methods, farming systems research,
integrated farming systems
Minor: modeling, pond dynamics, wastewater
(sewage) reuse

353 Dr. Roger S.V. Pullin
Director, ICLARM
MCPO Box 2631, 0718 Makati
Metro Manila, Philippines
Tel: 8189283; 8180466; 8175255 Fax: 8163183
Tlx: 64794 ICLARM PN; 4900010376 ICL UI (USA)
E-mail: (CGNET) ICLARM;
(SCIENCENET) ICLARM.MANILA
Major: freshwater aquaculture, genetics, integrated
farming systems
Minor: conservation, ecology, waster (sewage) reuse

354 Ms. Parveen Quarrar
Ph.D. Student/Research Assistant
Department of Biology, University of New Brunswick
Bag Service 4511, Fredericton, N.B., Canada E3B 6E1
Tel: 4534583 to 4 Fax: 4533583
E-mail: U4ZQ@UNB.CA
Major: freshwater aquaculture, marine aquaculture,
parasites
Minor: ecology, farming management, immunology

355 Mr. Md. Khalilur Rahman
Scientific Officer, Fisheries Research Institute
Riverine Station, Chandpur 3602, Bangladesh
Tel: 3482; 3407
Major: catfishes, induced spawning,
reproductive physiology
Minor: feed technology, freshwater aquaculture,
nutrition

356 Dr. Krishen Rana
Research Lecturer, Institute of Aquaculture
University of Stirling, Stirling FK9 4LA, UK
Tel: 467901 Fax: 472133 Tlx: 777759
Major: biotechnology, cryopreservation,
genetic resources
Minor: hatchery technology, reproductive physiology,
seed production

357 Dr. Carlos D. Rangel
Professor/Researcher
Universidad Autonoma de Baja California Sur
PO Box 18-B, La Paz 23081
Baja California Sur, Mexico
Tel: 10755 Fax: 11880
Major: marine aquaculture
Minor: bivalves

358 Mr. Krishna D.S. Rao
Senior Scientist, Reservoir Fisheries Division
1031, 80 Feet Rd., 4th Block, Rajajinagar
Bangalore 560010, India
Tel: 357213
Major: limnology, reservoirs
Minor: cages, phytoplankton, zooplankton

359 Dr. T.V. Gayathri Rao
Information Specialist, B.P. Nutrition
PO Box 5, Songkhla 90000, Thailand
Tel: 321056; 321057 Fax: 321058; 321055
Major: business development, information,
marine aquaculture
Minor: broodstock, nutrition, pond management

360 Mr. Pascual M. Remetio
Project Coordinator, Lutheran World Services
PO Box 1133, Maputo, Mozambique
Tel: 20261 Fax: 20387 Tlx: 6-664 LWS MO
Major: rice-fish farming systems
Minor: farming systems research

361 Mr. Dirk J.R. Reyntjens
Aquaculturist, GOPA Consultants
Hindenburgring 18
D-61348 Bad Homburg, Germany
Tel: 30040 Fax: 35046
Tlx: 415-186 GOPA D
Major: farming systems research
Minor: development, socioeconomics

362 Mr. Michael A. Rimmer
Senior Fisheries Biologist, Northern Fisheries Centre
Box 5396, Cairns, Queensland, Australia
Tel: 351560 Fax: 351401
Major: brackishwater aquaculture, ecology,
marine aquaculture
Minor: finfish, pond dynamics, zooplankton

363 Dr. Olukayode O. Roberts
National Coordinator
Nigerian Institute for Oceanography
and Marine Research

PMB 12729 Victoria Island, Lagos, Nigeria
Tel: 630402
Major: freshwater aquaculture, integrated farming
systems, rural sociology
Minor: cages, diseases, extension

364 Dr. Frederik C. Roest
Senior Fisheries Adviser
International Agricultural Centre
PO Box 88, 6700 AB Wageningen, The Netherlands
Tel: 90247 Fax: 18852
Tlx: 45888 INTAS
Major: development, environmental studies,
marine aquaculture

365 Mr. Lanchipa G.F. Rojas
Técnico Analista, Instituto de Fomento Pesquero
PO Box 170, Desiderio Garcia S/N
Barrio Industrial Sitio, No. 2, Iquique, Chile
Tel: 413579; 422216 Fax: 411944
Major: brackishwater aquaculture, farming systems
research, freshwater aquaculture, hatchery
technology, integrated farming systems, marine
aquaculture, modeling, production systems,
seaweeds, seed production, site selection,
water quality
Minor: biochemistry, development, ecology,
engineering, environmental impact, environmental
studies, feed technology, habitat restoration,
information, pathology

366 Ms. Ma. Rowena R. Romana-Eguia
Research Associate
SEAFDEC Aquaculture Department
Binangonan Freshwater Station
Binangonan, Rizal 1903, Philippines
Tel: 22125; 9230201 to 3 (Manila)
Fax: 81340 (Iloilo)
Major: freshwater aquaculture, genetics, tilapias
Minor: population genetics, quantitative genetics

367 Mr. Ivar Ronnestad
Scientist, Zoological Laboratory
Allegt. 41 N-5007, Bergen, Norway
Tel: 212246
Major: bioenergetics, marine aquaculture, physiology
Minor: biochemistry, modeling

368 Mr. Bob Rosenberry
Editor/Publisher, Aquaculture Digest
9434 Kearny Mesa Rd., San Diego, CA 92126, USA
Tel: 2716354 Fax: 2710324
Major: information, shrimps

- 369 Dr. Lindsay G. Ross**
Lecturer, Institute of Aquaculture
University of Stirling, Stirling FK9 4LA, UK
Tel: 467882 Fax: 471233 Tlx: 777759
E-mail: LGR1@STRL.AC.UK
Major: bioenergetics, environmental studies,
physiology
Minor: computer methods, curriculum development,
site selection
- 370 Dr. Shmuel Rothbard**
Chief Biologist, YAFIT Laboratory
Fish Breeding Centre, Gan Shmuel 38810, Israel
Tel: 320008 Fax: 320404 Tlx: 471712 GAN
Major: broodstock, genetics, induced spawning
- 371 Dr. Kenneth R. Ruddle**
Professor, Matsugaoko-cho 11-20
Nishinomiya-shi, Hyogo-ken 662, Japan
Tel/Fax: 2904
Major: ecology, farming systems research,
integrated farming systems
Minor: economics, modeling
- 372 Mr. Jagath W. Rupasinghe**
Lecturer, Department of Fisheries Biology
Faculty of Science, University of Ruhuna
Matara, Sri Lanka
Tel: 2681
Major: economics, marketing, post-harvest technology
Minor: resource economics, socioeconomics
- 373 Dr. Suleiman O.E. Sadiku**
Ph.D. Student, Institute of Aquaculture
University of Stirling, Stirling FK9 4LA, UK
Fax: 472133 Tlx: 477759
Major: freshwater aquaculture, integrated farming
systems, nutrition
Minor: computer methods, statistics, stock assessment
- 374 Mr. Shyamalendu B. Saha**
Senior Scientific Officer
Riverine Sub-station, Fisheries Research Institute
PO Box 08, Rangamati 4500, Bangladesh
Tel: 2159
Major: freshwater aquaculture, limnology,
pond dynamics
Minor: stock assessment
- 375 Mr. P. Sahadevan**
Officer, The Waterbase Ltd., W-16/1681
Ramamurthy Nagar, Nellore, Andhra Pradesh, India
Tel: 28461; 23633 Fax: 23955 Tlx: 0484-214 KEPIN
- Major: brackishwater aquaculture, nutrition,
pond management
Minor: crustaceans, seed production
- 376 Mr. Wichien Sakaras**
Trang Coastal Aquaculture Station, Pakmeng Beach
Sikao District, Trang 92150, Thailand
Tel: 212177
Major: brackishwater aquaculture
Minor: cages, finfish, nutrition
- 377 Mr. T.M. Sankaran**
Assistant Professor/
Head of Department of Management Studies
College of Fisheries, Kerala Agricultural University
Panangad, Cochin 682506, India
Tel: 805274
Major: statistics, stock assessment
Minor: modeling
- 378 Mr. Alejandro E. Santiago**
Station Manager, SEAFDEC Aquaculture Department
Binangonan Freshwater Station
Binangonan, Rizal 1903, Philippines
Tel: 22125; 9230201 to 3 (Manila)
Fax: 81340 (Iloilo)
Major: ecology, limnology, phytoplankton
Minor: environmental impact, wastewater (sewage)
reuse, water quality
- 379 Dr. Amita Saxena**
Assistant Professor, College of Fisheries
Department of Aquaculture
G.B. Pantnagar University of Agriculture
and Technology
Pantnagar 263145, India
Tlx: 574-261 PANT IN
Major: biochemistry, biotechnology, genetics
Minor: nutrition, pathology
- 380 Dr. Erkki J. Schwanck**
Research Officer, Department of Zoology
University of Stockholm, 106 91 Stockholm, Sweden
Major: behavior, reproductive physiology, tilapias
- 381 Dr. Lousie F. Scura**
Resource Economist, c/o FINAQUA
Diagonal 6, 10-31, Zona 10, Guatemala
Tel: 319683 Fax: 346573
Major: environmental impact, resource economics,
socioeconomics
Minor: economics, marketing, training
- 382 Mr. Ruben C. Sevilleja**
Director/Associate Professor
Freshwater Aquaculture Center
Central Luzon State University
Muñoz, Nueva Ecija 3120, Philippines
Tel/Fax: 3017323
Major: economics, freshwater aquaculture,
integrated farming systems
Minor: farming systems research, rice-fish farming
systems, socioeconomics
- 383 Dr. Meeransa S. Shafee**
Professor, Fisheries Section
Institut agronomique et vétérinaire Hassan II
BP 6202 Rabat-Instituts, Rabat, Morocco
Tel: 777439 Fax: 778110
Tlx: 36873 M; 36089 M
Major: bivalves, lagoons, marine aquaculture
Minor: bioenergetics, ecology, stock assessment
- 384 Mr. Maher M. Shafik**
Senior Biologist
Institute of Inland Water and Fish Culture
10 Hassan Sabry St., Zamalek, Cairo, Egypt
Tel: 3417298; 3401606
Major: reproductive biology
- 385 Dr. Mohamed Shariff**
Associate Professor
Faculty of Fisheries and Marine Science
Universiti Pertanian Malaysia, 43400 UPM Serdang
Selangor Darul Ehsan, Malaysia
Tel: 9488246 Fax: 9488246
Tlx: MA 37454 UNIPER E-mail: 157:CG1333
Major: diseases, immunology, parasites
Minor: environmental studies, freshwater aquaculture,
pathology
- 386 Dr. Colin C. Shelley**
Director, Aquaculture
Department of Primary Industry and Fisheries
GPO Box 990, Darwin, NT 0801, Australia
Tel: 894321 Fax: 811475
Major: farming systems research, finfish,
induced spawning
Minor: bivalves, policy, site selection
- 387 Dr. William L. Shelton**
Professor, Zoology Department
University of Oklahoma, Norman, OK 73019, USA
Tel: 3251058

Major: carps, cryopreservation, freshwater aquaculture, genetics, growth, induced spawning, reproductive physiology, reservoirs, tilapias
 Minor: endocrinology, water quality

388 Dr. Kerry L. Shephard
 Senior Lecturer, Department of Life Sciences
 The University of Buckingham
 Buckingham, MK18 1EG, UK
 Tel: 814080
 Major: bioenergetics, ecophysiology, physiology
 Minor: environmental studies, pollution, water quality

389 Dr. Abdul Q. Siddiqui
 Research Scientist, Fish Culture Project
 Institute of Natural Resources and Environment
 Kacst, PO Box 6086, Riyadh 11442, Saudi Arabia
 Tel: 4883555; 4883444 L.603 Fax: 4813611
 Tlx: 401590 KACST SJ
 Major: freshwater aquaculture
 Minor: production systems, tilapias

390 Mr. Neil A. Sims
 Private Researcher
 73-4369 Old Government, Mauka Rd.
 Kailua-Kona, HI 96740, USA
 Tel/Fax: 3256516
 Major: bivalves, giant clams, marine aquaculture
 Minor: hatchery technology, statistics, stock assessment

391 Mr. Akhilesh K. Singh
 Assistant Professor, Ranchi Veterinary College
 Ranchi 834007, Bihar, India
 Major: freshwater aquaculture, induced spawning, integrated farming systems
 Major: broodstock, hatchery technology, water quality

392 Dr. C.S. Singh
 Professor/Head of Fisheries, College of Fisheries
 G.B. Pant University of Aquaculture and Technology
 Pantnagar 263145, India
 Tlx: 574-261 IN
 Major: freshwater aquaculture, nutrition
 Minor: plankton

393 Dr. Vishwa Raman P. Sinha
 Director, Central Institute of Fisheries Education
 7 Bungalows, Versova, Bombay 400061, India
 Tel: 6263404; 6261466 to 8 Fax: 6261573
 Tlx: 011-78421 CIFE IN
 Major: environmental impact, environmental studies, induced spawning
 Minor: carps, ecology, endocrinology

394 Mr. Dhurjati P. Sinhababu
 Senior Scientist, Central Rice Research Institute
 Cuttack 753006, Orissa, India
 Tel: 20020 L.212 Std.0671 Tlx: 676-220
 Major: freshwater aquaculture, reproductive physiology, rice-fish farming systems
 Minor: endocrinology, farming systems research, integrated farming systems

395 Dr. Mala P. Sivalingam
 Professor, School of Biological Sciences
 Universiti Sains Malaysia
 11800 Minden, Penang, Malaysia
 Tel: 877888 L.3517 Fax: 871526
 Tlx: USM LIB MA 40254
 Major: biotechnology, environmental impact, environmental studies
 Minor: pollution, wastewater (sewage) reuse, water quality

396 Mr. Balasubramaniam Sivaloganathan
 Research Scholar, Department of Zoology
 National University of Singapore
 Lower Kent Ridge, Singapore 0511
 Tel: 7722701 Fax: 7792486 Tlx: UNISPO RS 33943
 E-mail: SCIP 1063.NUS.SG
 Major: biochemistry, nutrition, physiology
 Minor: bioenergetics, biotechnology, endocrinology

397 Mr. N. Sivasankar
 Research Assistant, Regional Research Station
 University of Agricultural Sciences
 PB 24, Raichur 584101, Karnataka State, India
 Tel: 8378
 Major: farming management, freshwater aquaculture, integrated farming systems
 Minor: brackishwater aquaculture, nutrition, pond management

398 Mr. Mike Skladany
 Ph.D. Student, Sociology, Berkey Hall
 Michigan State University, East Lansing
 Michigan 48824-1111, USA
 Tel: 3555048
 Major: development, ecology, farming systems research, freshwater aquaculture, integrated farming systems, marine aquaculture, policy, resource economics, rice-fish farming systems
 Minor: rural sociology

399 Mr. Allan H. Smith
 Program Officer-Natural Resources
 Caribbean Natural Resources Institute

Clark Street, Vieux Fort, St. Lucia
 Tel: 4546878 Fax: 4545188
 Major: marine aquaculture, seaweeds
 Minor: coral reefs

400 Dr. Prasert Sobhon
 Professor of Cell Biology, Anatomy Department
 Faculty of Science, Mahidol University
 Bangkok 10400, Thailand
 Tel: 2455198 Fax: 2479880
 Major: biotechnology, cryopreservation, freshwater aquaculture
 Minor: biochemistry, parasites, reproductive physiology

401 Dr. William A. Sodeman, Jr.
 Professor/Chief of Gastroenterology
 Medical College of Ohio, PO Box 10008
 Toledo, OH 43699-0008, USA
 Tel: 3813704 Fax: 3820354
 Major: parasites
 Minor: public health

402 Mr. John D. Sollows
 Box 1080, R.R. 2, Yarmouth
 Nova Scotia, Canada B5A 4A6
 Major: extension, farming systems research, rice-fish farming systems
 Minor: cages, development, integrated farming systems

403 Dr. Patrick P. Sorgeloos
 Director/Professor, Faculty of Agricultural Sciences
 Laboratory of Aquaculture and Artemia Center
 Rozier 44, B-9000 Ghent, Belgium
 Tel: 643754 Fax: 644193
 Tlx: 12754 RUGENT B
 E-mail: ARTEMIA@FLAND.RUG.AC.BE
 Major: hatchery technology, nutrition, seed production

404 Mr. Paul C. Southgate
 Ph.D. Student, Zoology Department
 James Cook University
 Townsville, Queensland 4811, Australia
 Tel: 814530 Fax: 251570
 Major: feed technology, marine aquaculture, nutrition
 Minor: biochemistry, bioenergetics, hatchery technology

405 Mr. Arunachala Sreenivasan
 Fisheries Scientist, AE Block, Annanagar No. 45
 Madras 600040, India
 Tel: 6212433
 Major: limnology, pollution, reservoirs

Minor: environmental studies, freshwater aquaculture, water quality

406 Dr. Kostas I. Stergiou
Researcher, National Centre for Marine Research
Agios, Kosmas 16604, Helliniko, Athens 16604, Greece
Tel: 9821354 Fax: 9522169
Major: ecology, statistics, stock assessment
Minor: farming management, integrated farming systems, marine aquaculture

407 Dr. Komar Sumantadinata
Head, Laboratory of Fish Breeding
Department of Aquaculture
Faculty of Fisheries, Institut Pertanian Bogor
Kampus IPB, Darmaga, Bogor, Indonesia
Tel: 322167
Major: genetics
Minor: biotechnology, hatchery technology

408 Mr. Arul V. Suresh
Ph.D. Student
Cooperative Fisheries Research Laboratory
Southern Illinois University, Carbondale, IL 2901, USA
Tel: 5367761 Fax: 5367761
E-mail: GR8888@SINCVMB.SIV.EDU
Major: freshwater aquaculture
Minor: development, production systems

409 Dr. James P. Szyper
Researcher, Hawaii Institute of Marine Biology
University of Hawaii at Manoa
PO Box 1346, Kaneohe, HI 96744, USA
Tel: 2367420 Fax: 2367443
Major: pond dynamics, waste-fed, water quality
Minor: ecology, engineering, phytoplankton

410 Dr. Albert G.J. Tacon
Fishery Resources Officer, Rm. F-227, FIRI
Fisheries Department, FAO
Viale delle Terme di Caracalla
00100 Rome, Italy
Tel: 57976470 Fax: 5120330
Tlx: 610181 FAO I E-mail: FIRM02@1RM FAO01
Major: feed technology, nutrition, waste-fed
Minor: farming systems research, integrated farming systems, pond management

411 Mr. André J. Talbot
Research Associate
Université du Québec A Chicoutimi
555 Boul. de L'Université, Chicoutimi
Québec, Canada G7H 2B6

Tel: 6503618 Fax: 6503419
Major: statistics
Minor: quantitative genetics

412 Mr. Rashid A. Tamatamah
Fisheries Officer
Marine Fisheries Research and Training Institute
PO Box 60091, Dar Es Salaam, Tanzania
Tel: 47011 to 3
Major: marine aquaculture, pond dynamics, site selection
Minor: farming systems research, nutrition, stock assessment

413 Dr. Eddy S.P. Tan
Associate Professor, School of Biological Sciences
Universiti Sains Malaysia
11800 Minden, Penang, Malaysia
Tel: 877888 L.3534 Fax: 871526
Tlx: USM LIB MR 40254
Major: behavior, endocrinology, reproductive physiology
Minor: carps, freshwater aquaculture, seed production

414 Mr. Touch Seang Tana
Administrator, Department of Fisheries
N-186 134 Tou Samuth, P. Pesah, Cambodia
Tel: 23275
Major: environmental impact, information, marketing
Minor: brackishwater aquaculture, freshwater aquaculture, rural sociology

415 Mr. Hideyuki Tanaka
Project Manager
FAO South Pacific Aquaculture Development Project
c/o UNDP Private Mail Bag, Suva, Fiji
Tel: 300067 Fax: 300029 Tlx: 2512 FAOFIS FJ
Major: brackishwater aquaculture, freshwater aquaculture, marine aquaculture
Minor: development, farming management, marketing

416 Dr. Nobuhiko Taniguchi
Professor, Department of Cultural Fisheries
Faculty of Agriculture, Kochi University
Monobe B-200, Nankoku, Kochi 783, Japan
Tel: 634141 Fax: 636492
Major: genetic resources, population genetics, quantitative genetics
Minor: broodstock, carps, finfish, seed production

417 Ms. Mohosena B. Tanu
Scientific Officer, Fisheries Research Institute
Chandpur 3602, Bangladesh

Tel: 3407; 3482
Major: nutrition
Minor: crustaceans, freshwater aquaculture

418 Mr. Moh Taufiq
Jl. Jombang IV/1, BTN Taman Baru
Mataram, Indonesia
Tel: 26906
Major: farming management, production systems, resource economics, seaweeds, socioeconomics, statistics
Minor: brackishwater aquaculture, environmental studies, rice-fish farming systems

419 Mr. Shawn R. Taylor
Senior Biologist, 158 Mountain View Rd. S.
Georgetown, Ontario, Canada L7G 4K7
Tel: 2294646 Fax: 2294692
Major: crustaceans, marine aquaculture, wastewater (sewage) reuse
Minor: integrated farming systems, pond dynamics, rural sociology

420 Ms. Saidin Thalathian
Fisheries Research Officer
Freshwater Fish Research Centre
Department of Fisheries, Batu, Berendam
75300 Melaka, Malaysia
Tel: 353497; 353499 Fax: 355705
Major: hatchery technology, induced spawning, site selection
Minor: freshwater aquaculture, post-harvest technology, production systems

421 Dr. Hugh W. Thomforde
Pearl Farm Manager
Tongareva Marine Research Centre
Ministry of Marine Resources, PO Box 85, Avarua
Rarotonga, Cook Islands
Tel: 28721 to 3 Fax: 29721
Tlx: 772-62006
Major: bivalves, water quality
Minor: farming management

422 Dr. John E. Thorpe
Senior Principal Scientific Officer
Agriculture and Fisheries Department
The Scottish Office
Freshwater Fisheries Laboratory, Faskally
Pitlochry, Perthshire PH16 5LB, UK
Tel: 472060 Fax: 473523
Major: development, ecology, genetic resources
Minor: behavior, growth, reproductive physiology

423 Dr. Dirk Thys van den Audenaerde
 Director, Royal Museum for Central Africa
 Steenweg op Leuven, 13-3080, Tervuren, Belgium
 Tel: 7695285 Fax: 7670242
 Major: behavior, taxonomy, tilapias
 Minor: catfishes, freshwater aquaculture

424 Dr. Ruangrai Tokrisna
 Associate Professor
 Department of Agricultural and Resource Economics
 Kasetsart University, Bangkok 10900, Thailand
 Tel: 5613467 Fax: 5798781
 Major: economics
 Minor: marketing, resource economics

425 Mr. Kamonporn Tonguthai
 Director, Aquatic Animal Health Research Institute
 Kasetsart University Campus
 Bangkok 10900, Thailand
 Tel: 5794122 Fax: 5613993
 Major: diseases, parasites, pathology
 Minor: water quality

426 Dr. Jorge E. Toro
 Instituto de Biología
 Marina Casilla 567, Valdivia, Chile
 Fax: 212953
 Major: genetic resources, marine aquaculture,
 quantitative genetics
 Minor: broodstock, population genetics,
 production systems

427 Ms. Krisna R. Torrissen
 Senior Scientist, Directorate of Fisheries
 N-5198 Matredal, Norway
 Tel: 366040 Fax: 366143
 Major: biochemistry, growth, nutrition
 Minor: biotechnology, genetics, population genetics

428 Mr. Alamoussa C. Traore
 Directeur des pêches
 Ministère de l'Environnement et du Tourisme
 03 BP 7044, Ouagadougou 03, Burkina Faso
 Tel: 306394; 306398 Tlx: SEGEGOUV 5556 BF
 Major: integrated farming systems, limnology, tilapias
 Minor: environmental impact, farming systems
 research, water quality

429 Mr. Truong Quoc Phu
 Professor, Faculty of Fisheries
 Cantho University, Cantho, Vietnam
 Major: biotechnology, marine aquaculture
 Minor: computer methods

430 Dr. Paul J. Udo
 Research Fellow I
 Department of Fisheries and Aquaculture
 University of Calabar, PMB 1115, Calabar
 Cross River State, Nigeria
 Tlx: 65103
 Major: crustaceans, integrated farming systems
 Minor: freshwater aquaculture

431 Dr. Adiaha A.A. Ugwumba
 Lecturer, Department of Forestry
 Fisheries and Wildlife Management
 University of Agriculture
 Abgokuta, Nigeria
 Tel: 200170 to 177 L.42, 53
 Major: freshwater aquaculture, induced spawning,
 nutrition
 Minor: environmental studies, extension,
 post-harvest technology

432 Dr. Alex O. Ugwumba
 Lecturer, Department of Zoology
 University of Ibadan, Ibadan, Nigeria
 Tel: 400550 to 62 L.1280, 1406
 Major: freshwater aquaculture, induced spawning,
 nutrition
 Minor: conservation, environmental studies, pollution

433 Mr. Graham F. Usher
 Nature Conservation Officer
 National Resources Management Project
 PO Box 1375, Manado, Sulut, Indonesia
 Tel: 64296 Fax: 64296
 Major: conservation, coral reefs, giant clams
 Minor: marine aquaculture, seaweeds

434 Dr. Fred M. Utter
 Acting Director, School of Fisheries
 University of Washington, Seattle, WA 98195, USA
 Major: conservation, genetic resources,
 population genetics
 Minor: hatchery technology, pens, taxonomy

435 Mr. Jan Michael Vakily
 Research Scientist, ICLARM
 c/o EC Delegation Sierra Leone, Valise Diplomatique
 CEC Rue de la Loi 200, Brussels, Belgium
 Tel: 250670 Fax: 225212
 Tlx: (0998) 3203 DELFED SL
 Major: stock assessment
 Minor: brackishwater aquaculture, computer methods

436 Mr. Anne van Dam
 Thorbechestraat 60, 6702 BS Wageningen
 The Netherlands
 Major: bioenergetics, modeling, pond dynamics
 Minor: ecophysiology, foodchains, growth

437 Mr. Frans van den Berg
 Aquaculturist, c/o FAO, PO Box 30750
 Lilongwe 3, Malawi
 Major: extension, freshwater aquaculture,
 integrated farming systems

438 Mr. Wim L. van Densen
 University Lecturer
 Department of Fish Culture and Fisheries
 Wageningen Agricultural University, PO Box 338
 6700 AH Wageningen, The Netherlands
 Tel: 83307 Fax: 83962 Tlx: NL 45015
 Major: foodchains, reservoirs, tilapias

439 Mr. Peter G.M. van der Heijden
 Aquaculturist, c/o De Kempen 3
 5345 NJ Oss, The Netherlands
 Major: extension, freshwater aquaculture, tilapias
 Minor: integrated farming systems, production
 systems, rice-fish farming systems, stock assessment,
 waste-fed

440 Mr. Jozef J.G. van der Zanden
 Project Coordinator
 Institute of Animal Breeding and Genetics
 Albrecht-Thaer-Weg 1, 3400 Göttingen, Germany
 Tel: 395604
 Major: brackishwater aquaculture, farming systems
 research, marine aquaculture
 Minor: cages, catfishes, crustaceans

441 Dr. Charles van Hove
 Professor, Plant Biology Laboratory
 Catholic University of Louvain
 5, Place Croix du Sua
 Bte 14 1348 Louvain-la-Neuve, Belgium
 Tel: 473464 to 8 Fax: 473471
 Major: integrated farming systems, rice-fish farming
 systems

442 Dr. Jan H. van Weerd
 Researcher, Department of Fishculture and Fisheries
 Wageningen Agricultural University, PO Box 338
 6700 AH Wageningen, The Netherlands
 Tel: 83307 Fax: 83962 Tlx: NL 45015
 Major: freshwater aquaculture, integrated farming
 systems, reproductive physiology

Minor: brackishwater aquaculture,
environmental studies

443 Mr. Koen A. Vanlerberghe
Lecturer, Zoology Department, Kenyatta University
Box 43844, Nairobi, Kenya
Tel: 810901 L.305, 307
Major: farming management, freshwater aquaculture,
integrated farming systems
Minor: carps, catfishes, tilapias

444 Dr. Tharayil J. Varghese
Professor, College of Fisheries
Mangalore 575002, India
Tel: 27834
Major: carps, feed technology, freshwater aquaculture
Minor: brackishwater aquaculture, hatchery
technology, marine aquaculture

445 Mr. Syama S. Veerina
c/o Dr. V. Kesava Rao
Wahab Rd., Tenali, A.P. 522201, India
Major: brackishwater aquaculture, freshwater
aquaculture, nutrition
Minor: computer methods, modeling, statistics

446 Mr. Juan Andres Vega Durand
Asesor, Dpto. Ecologia y Recursos Naturales
Universidad Centroamerica
Apartado 69 Managua, Nicaragua
Tel: 780951 Fax: 624004 to 5
Major: farming systems research, integrated farming
systems, tilapias
Minor: computer methods, engineering, statistics

447 Ms. Ravelina R. Velasco
Research Assistant, ICLARM
MCPO Box 2631, 0718 Makati
Metro Manila, Philippines
Tel: 8189283; 8180466; 8175255 Fax: 8163183
Tlx: 64794 ICLARM PN; 4900010376 ICL UI (USA)
E-mail: (CGNET) ICLARM;
(SCIENCENET) ICLARM.MANILA
Major: freshwater aquaculture, quantitative genetics
Minor: cryopreservation, reproductive physiology,
seed production

448 Mr. T.S. Velayudhan
Scientist, Central Marine Fisheries Research Institute
PB No. 2704, Cochin 682031, India
Tel: 369867 L.238
Major: bivalves, coral reefs, growth

Minor: biotechnology, induced spawning,
site selection, stock assessment

449 Dr. Johan A.J. Verreth
University Lecturer
Department of Fish Culture and Fisheries
Wageningen Agriculture University, PO Box 338
6700 AH Wageningen, The Netherlands
Tel: 83307 Fax: 83962
Tlx: 45015 BLUWG UL
E-mail: VERRETH@ZOA.WAUNL
Major: bioenergetics, catfishes, nutrition
Minor: farming systems research, freshwater
aquaculture, pond dynamics

450 Dr. Janzel R. Villalaz
Research Scientist
Centro de Ciencias del Mar Y Limnologia
Universidad de Panama
Ciudad Universitaria "Octavio Méndez Pereira"
Estafeta Universitaria, Panama, Panama
Tel: 284409 Fax: 237870
E-mail: VILLALAZ.HURACAN
Major: bivalves, computer methods, genetics

451 Dr. Wolfgang Villwock
University Professor
Zoologisches Institut und Zoologisches Museum
Universität Hamburg, Martin Luther King Pl. 3
D-2000 Hamburg 13, Germany,
Tel: 41233873 Fax: 41233937
Tlx: 214 732 UNIH D
Major: environmental impact, genetic resources
Minor: freshwater aquaculture, tilapias

452 Dr. Wade O. Watanabe
Chief Scientist, Caribbean Marine Research Center
805 East 46th PL, Vero Beach, FL 32963, USA
Tel: 2349931 Fax: 2349954
Major: brackishwater aquaculture, finfish,
marine aquaculture
Minor: hatchery technology, induced spawning,
tilapias

453 Mr. Ian G. Watson
Feed Technologist, Natural Resources Institute
Central Avenue, Chatham Maritime, Chatham
Kent ME4 4TB, UK
Tel: 883552 Fax: 880066; 880077
Tlx: 263907 to 8 LDN G
Major: development, extension, feed technology
Minor: environmental impact, pesticides

454 Dr. Leong K. Wee
Senior Lecturer, Key Centre for Aquaculture
University of Tasmania, PO Box 1214
Launceston, Tasmania 7250, Australia
Tel: 260538 Fax: 260236
Major: feed technology, finfish, nutrition
Minor: freshwater aquaculture, marine aquaculture,
tilapias

455 Dr. Richard S.J. Weisburd
Fellow, National Institute for Environmental Studies
Global Environment Division, 16-2 Onogawa
Tsukuba, Ibaraki 305, Japan
Tel: 516111 L.327 Fax: 564680
Major: ecology, pond dynamics, water quality
Minor: computer methods, detritus, integrated farming
systems

456 Dr. Robin Welcomme
Chief, Inland Water Resources
and Aquaculture Service, FAO-FIRI
Rm. F-237, Viale delle Terme di Caracalla
00100 Rome, Italy
Tel: 57976654 Fax: 5120330 Tlx: 610181 FAO I
Major: river fisheries, species introduction
Minor: fishery management

457 Dr. M. Jayantha S. Wijeyaratne
Associate Professor, Department of Zoology
University of Kelaniya, Kelaniya, Sri Lanka
Tel: 521916
Major: environmental impact, environmental studies,
lagoons
Minor: ecology, pollution, reservoirs

458 Mr. Scott A. Willis
Research Scientist, Florida Marine Research Institute
100 8th Ave., S.E., St. Petersburg, FL 33701, USA
Tel: 8968626 Fax: 8230166
Major: environmental studies, marine aquaculture,
stock assessment
Minor: ecology, genetics, population genetics

459 Dr. Giora W. Wohlfarth
Research Scientist
Fish and Aquaculture Research Station
Dor, D.N. Hof Hacarmel 30820, Israel
Tel: 390651
Major: carps, genetics, tilapias

460 Dr. Wong Tatt Meng
Director, Centre for Marine and Coastal Studies
Universiti Sains Malaysia

11800 Minden, Penang, Malaysia
 Tel: 877888 L.2103 Fax: 872960 Tlx: MA 40254
 Major: bivalves, induced spawning, seed production
 Minor: depuration, marine aquaculture, post-harvest technology, production systems

461 Dr. Jahara Yahaya
 Associate Professor
 Faculty of Economics and Administration
 University of Malaya, 59100 KL, Malaysia
 Tel: 7554111 Fax: 7567252
 Major: resource economics
 Minor: economics

462 Dr. Ahmed Yahyaoui
 Enseignant-chercheur
 Département de biologie, Faculté des Sciences
 BP 1014, Rabat, Morocco
 Tel/Fax: 7775461
 Major: brackishwater aquaculture, computer methods, freshwater aquaculture
 Minor: ecology, genetic resources, growth

463 Dr. Masashi Yamaguchi
 Professor, Department of Marine Sciences
 University of the Ryukyus, Senbaru 1
 Nishihara, Okinawa 903-01, Japan
 Tel: 8952221 L.2685 Fax: 8952247
 Major: bivalves, fisheries enhancement
 Minor: conservation, coral reefs, lagoons

464 Mr. Takashi Yamamoto
 Okinawa Prefectural Fisheries Experimental Station
 Yaeyama Branch 828-2 Kabira
 Ishigaki-shi, Okinawa 907-04, Japan

Major: marine aquaculture, seed production, stock assessment
 Minor: behavior, finfish

465 Dr. Alejandro Yañez-Arancibia
 Scientific Director
 Av. Agustuin Melgar y Juan de la Barrera Cd. Universitaria
 Apartado Postal 520, Código Postal 24030, Mexico
 Tel: 66589 Fax: 65954
 Major: ecology, environmental impact, lagoons

466 Dr. Chia V. Yapi
 Attaché de Recherche, Département des ressources
 Institut des Savanes, 01 BP 633, Bouaké 01
 Côte d'Ivoire
 Tel: 633364 Fax: 632045
 Major: freshwater aquaculture, quantitative genetics
 Minor: computer methods, genetic resources, statistics

467 Mr. Ibrahim Yaro
 Deputy Chief Fisheries Officer, Fisheries Department
 Ministry of Agriculture and Natural Resources Minna
 PMB 74, Minna, Niger State, Nigeria
 Major: freshwater aquaculture, reservoirs, seed production
 Minor: conservation, hatchery technology, induced spawning, integrated farming systems, policy, rice fish farming systems

468 Dr. Shinn-Pyng Yeh
 Associate Professor, Department of Aquaculture
 National Ping-Tung Institute of Agriculture
 1 Hseuh-Fu Rd., Nei-Pu Hsiang, Pingtung
 Taiwan 92107, China

Tel: 7703202 L.2902 Fax: 7700173
 Major: ecology
 Minor: environmental studies, finfish, taxonomy

469 Dr. Tientcheu J. Youmbi
 Fisheries and Oceanography Research Station
 PMB 77, Limbe, Cameroon
 Major: brackishwater aquaculture, farming management, marine aquaculture
 Minor: feed technology, nutrition

470 Mr. Yuan Zhanpeng
 Research Associate, Institute of Reservoir Fisheries
 Ministry of Water Resources, Academia Sinica
 Wuhan 430073, China
 Tel: 703023
 Major: genetics
 Minor: biotechnology, reservoirs

471 Mr. Sutandar Zainal
 Lecturer Staff, Department of Fisheries
 Padjadjaran University, Jatiningor 45363, Indonesia
 Tel: 443998 L.26, 28, 30
 Major: freshwater aquaculture
 Minor: cages, reservoirs

472 Mr. Ronald D. Zweig
 Aquaculturist, The World Bank, 1818 H Street
 NW, Washington DC 20433, USA
 Tel: 4582174 Fax: 4771865
 Major: economics, freshwater aquaculture, integrated farming systems
 Minor: limnology, pond dynamics, reservoirs

SECTION II Country Index

- Argentina 340
Australia 027, 049, 051, 058, 074, 086, 100, 206, 214,
218, 252, 256, 265, 304, 343, 362, 386, 404, 454
- Bangladesh 011-012, 014-015, 040, 052, 154, 166, 173,
176, 185, 341, 355, 374, 417
Belgium 090, 111, 276, 403, 423, 435, 441
Brazil 325
Brunei Darussalam 080
Burkina Faso 428
- Cambodia 414
Cameroon 309, 349, 469
Canada 053, 099, 136, 167, 175, 207, 298, 306, 351, 354,
402, 411, 419
Chile 142, 365, 426
China 076-077, 147, 162, 241-242, 278, 338, 468, 470
Colombia 288
Congo 209
Cook Islands 421
Costa Rica 165
Cote d'Ivoire 007, 083, 103, 220, 222, 290, 466
Cuba 131
Cyprus 030
- Denmark 187
- Ecuador 068
Egypt 150, 384
Ethiopia 149
- Fiji 230, 415
France 109, 141, 160, 234, 239, 245, 289
- Gambia, 071
Germany 081, 172, 213, 361, 440, 451
Ghana 022-023, 036, 098, 122, 139, 159, 224, 318, 320-
321, 324, 331
Greece 406
Guatemala 381
- India 008, 025, 033, 035, 045, 055, 057, 072, 073, 075,
101, 110, 135, 145, 190, 199, 225, 227, 231, 282, 284,
296-297, 300, 302-303, 305, 335-337, 358-359, 375, 377,
379, 391-394, 397, 405, 444-445, 448
Indonesia 010, 034, 186, 191-192, 226, 407, 418, 433,
471
Israel 137, 174, 183, 277, 280, 370, 459
Italy 044, 085, 092, 210, 267, 410, 456
- Japan 295, 371, 416, 455, 463-464
- Kenya 020, 095, 170, 255, 322, 333, 443
Kuwait 093
- Madagascar 196
Malawi 021, 060-061, 078, 106, 194, 208, 212, 260, 293,
299, 308, 437
Malaysia 018, 028, 177, 204, 330, 385, 395, 413, 420,
460-461
Mauritius 157, 229
Mexico 070, 089, 251, 269, 270, 357, 465
Micronesia 094, 130
Morocco 383, 462
Mozambique 360
Myanmar 228
- Netherlands, The 182, 257, 364, 436, 438-439, 442, 449
New Caledonia 097
New Zealand 180
Nicaragua 446
Nigeria 004-006, 013, 017, 031-032, 038-039, 115, 118-
119, 121, 125-127, 132, 188-189, 201, 215, 274, 316,
319, 323, 326-329, 332, 363, 430-432, 467
Norway 050, 151-153, 367, 427
- Pakistan 249, 271
Panama 450
Papua New Guinea 084, 350
Peru 254, 291
- Philippines 001-003, 009, 026, 041, 046-047, 056, 059,
067, 082, 087, 096, 102, 108, 112, 117, 124, 138, 140,
144, 146, 155-156, 163, 184, 195, 233, 243, 250, 253,
259, 261-262, 264, 279, 286-287, 314, 334, 339, 342,
348, 352-353, 366, 378, 382, 447
- Saudi Arabia 016, 389
Sénégal 104-105
Singapore 107, 164, 232, 273, 396
Solomon Islands 148, 294
Spain 069, 161
Sri Lanka 113, 116, 200, 372, 457
St. Lucia 399
Sudan 019, 120, 281
Sweden 380
- Tanzania 037, 066, 203, 211, 263, 412
Thailand 079, 114, 134, 197, 221, 244, 246, 272, 283,
285, 301, 307, 312, 315, 376, 400, 424, 425
Tonga 128
Tunisia 024
- USA 043, 048, 062, 088, 123, 143, 158, 168, 171, 179,
181, 219, 223, 240, 248, 258, 292, 346, 347, 368, 387,
390, 398, 401, 408-409, 434, 452, 458, 472
UK 054, 064, 065, 091, 129, 133, 178, 198, 205, 216-217,
247, 266, 268, 344, 356, 369, 373, 388, 422, 453
USSR 193
- Venezuela 345
Vietnam 063, 235-238, 310-311, 313, 429
- Zaire 029
Zambia 202
Zimbabwe 042, 169, 275, 317

Section III Institutional Index

(International institutions are spelled out in Appendix 2.

This list includes universities, research institutions, government agencies and private companies.)

- Argentina**
Instituto de Biología Marina Y Pesquera 340
- Australia**
AQUASEARCH 058
Australian Institute of Marine Science 051
Deakin University 100
Department of Conservation, Forests and Lands 086
Department of Primary Industry and Fisheries 386
Fisheries Research Centre 206
James Cook University 049, 252, 404
Northern Fisheries Centre 343, 362
Northern Territory University 074
Queensland University of Technology 027, 256, 265
Sea Fisheries Division 304
Southern Fisheries Centre 214
University of Tasmania 454
- Bangladesh**
Bangladesh Agricultural University 176
Fisheries Research Institute 011, 014-015, 173, 185, 341, 355, 374, 417
- Belgium**
Catholic University of Louvain 441
Laboratory of Aquaculture and Artemia Center 090, 403
Royal Museum for Central Africa 423
Unité d'écologie des eaux douces 276
University of Ghent 111
- Brazil**
University of Sao Paulo 325
- Brunei Darussalam**
Universiti Brunei Darussalam 080
- Burkina Faso**
Ministère de l'Environnement et du Tourisme 428
- Cambodia**
Department of Fisheries 414
- Cameroon**
Fishculture Research Station 349
- Canada**
Fisheries and Oceanography Research Station 469
Institute of Animal Research 309
- Canada**
British Columbia Packers Ltd. 306
CIDA 052, 351
Dalhousie University 136
Hydro-Québec 053
IDRC 099
MTL Biotech Ltd. 175
Université du Québec A Chicoutimi 411
University of Guelph 167
University of New Brunswick 298, 354
- Chile**
Instituto de Biología 426
Instituto de Fomento Pesquero 365
Instituto Profesional de Osorno 142
- China**
Asian Pacific Regional Research and Training Centre for Integrated Fish Farming 162, 241, 278
Beijing Aquatic Science Institute 248
East China Normal University 076
Freshwater Fisheries Research Centre 338
Ministry of Water Resources 470
National Ping-Tung Institute of Agriculture 468
Ocean University of Qingdao 147
Shanghai Fisheries University 242
South China Sea Institute of Oceanology 077
- Congo**
Projet pisciculture rurale de Djoumduna 209
- Cook Islands**
Ministry of Marine Resources 421
- Costa Rica**
Universidad Nacional 165
- Côte d'Ivoire**
Centre de recherches océanologiques 007, 083
Institut des Savanes 103, 222, 290, 466
- Cuba**
Centro de Investigaciones Pesqueras 131
- Denmark**
Århus University 187
DANIDA 040
- Egypt**
Institute of Inland Water and Fish Culture 384
Ministry of Agriculture and Fisheries Resources 150
- Ethiopia**
Addis Ababa University 149
- Fiji**
Ministry of Primary Industries 230
- France**
Centre de coopération internationale en recherche agronomique pour le développement 234
ENSA (Ecole nationale supérieure agronomique) 289
Institut français de recherche pour l'exploitation de la mer 141, 160
Laboratoire de biologie cellulaire CHRU 245
ORSTOM (L'Institut français de recherche scientifique pour le développement en coopération) 239
SEPIA International 109
- Gambia**
Fisheries Department 071
- Germany**
GOPA Consultants 361
Humboldt University 213
Institute of Animal Breeding and Genetics 440
Universität Hamburg 451
University of Landscape Planning and Ecology 172
- Ghana**
Institute of Aquatic Biology 022, 036, 122, 320, 331
Institute of Renewable Natural Resources 023, 098, 324
Irrigation Consultants of the Upper Regions 224
Irrigation Development Authority 321

- University of Science and Technology 139, 318
University of Ghana 159
- Greece**
National Centre for Marine Research 406
- India**
Central Institute of Fisheries Education 110, 393
Central Marine Fisheries Research Institute 033, 075, 300, 302, 305, 337, 448
Central Rice Research Institute 394
College of Agriculture 145
College of Fisheries 296, 303, 444
Department of Agriculture and Cooperatives 335
Fisheries College and Research Institute 135
G.B. Pant University of Agriculture and Technology 073, 379, 392
Indian Council of Agricultural Research 101
Indian Institute of Technology 282
Kerala Agricultural University 284, 377
Madurai College 297
Madurai Kamaraj University 225
National Bank for Agriculture and Rural Development 336
National Bureau of Fish Genetic Resources 231
Naturewealth Development Corporation Ltd. 055
Orissa Shrimp Seed Production, Supply and Research Center 008
Rallis India Ltd. 057
Ranchi Veterinary College 391
Reservoir Fisheries Division 358
Taraporevala Marine Biological Research Station 190
The Waterbase Ltd. 375
University of Agricultural Sciences 045, 397
University of Kerala 199
University of Madras 035
Visva Bharati University 072
- Indonesia**
Balai Penelitian Perikanan Budidaya Pantai 192
Bung Hatta University 226
Diponegoro University 186
Institut Pertanian Bogor 407
National Resources Management Project 433
Padjadjaran University 191, 471
University of Riau 010
- Israel**
Agricultural Research Organization 174, 183
Fish and Aquaculture Research Station 277, 459
Ministry of Agriculture 280
Tel Aviv University 137
YAFIT Laboratory 370
- Italy**
Istituto Centrale per la Ricerca Scientifica e Tecnologica Applicata alla pesca Marittima 092
FAO 044, 084, 169, 196, 210, 251, 267, 317, 350, 410, 415, 437, 456
- Japan**
Kochi University 416
National Institute for Environmental Studies 455
Okinawa Prefectural Fisheries Experiment Station 464
Okinawa Prefectural Sea Farming Center 295
University of Ryukyus 463
- Kenya**
Baobab Farm Ltd. 170
Kenya Marine and Fisheries Research Institute 255, 333
Kenyatta University 020, 322, 443
University of Nairobi 095
- Kuwait**
Kuwait Institute for Scientific Research 093
- Malaysia**
Department of Fisheries 420
Fisheries Department 204
Universiti Pertanian Malaysia 028, 385
Universiti Rebangsaan Malaysia 330
Universiti Sains Malaysia 018, 177, 395, 413, 460
University of Malaya 461
- Malawi**
Bunda College of Agriculture 308
Department of Research and Environmental Affairs 208, 293
National Aquaculture Centre 299
University of Malawi 021
- Mauritius**
Albion Fisheries Research Centre 157
Management and Development Company Ltd. 229
- Mexico**
Escuela de Biología 070
Laboratorio de Ciencias Marinas 089
Universidad Antonoma de Baja California Sur 357
- Micronesia**
Department of Resources and Development 130
- Morocco**
Departement de biologie, Faculté des Sciences 462
- Institut agronomique et vétérinaire Hassan II 383
- Mozambique**
Lutheran World Services 360
- Myanmar**
Yangon University 228
- Netherlands, The**
Wageningen Agricultural University 182, 257, 438, 442, 449
International Agricultural Centre 364
- New Caledonia**
South Pacific Commission 097
- New Zealand**
Aquaculture Research Centre 180
- Nicaragua**
Universidad Centroamericana 446
- Nigeria**
Abia State University 215
African Regional Aquaculture Centre 039
Anglican Girls' Grammar School 188
Bayero University 006
Department of Fisheries 119
Federal College of Fisheries and Marine Technology 031
Ministry of Agriculture and Natural Resources 004, 467
National Root Crops Research Institute 189
Nigerian Institute for Oceanography and Marine Research 005, 017, 032, 038, 127, 316, 363
Ondo State University 327
University of Agriculture 431
University of Calabar 115, 118, 121, 125, 430
University of Ibadan 132, 201, 432
University of Jos 319, 328
University of Lagos 329
University of Nigeria 126, 274
University of Port Harcourt 323
- Norway**
Agricultural University of Norway 050, 151-153
Directorate of Fisheries 427
- Pakistan**
Aquaculture Technologies (PVT) Ltd. 271
Punjab University 249

Panama

Universidad de Panama 450

Philippines

Aquatic Biosystems 163
 Bicol University 059, 261, 262, 314
 Bureau of Fisheries and Aquatic Resources 250, 253, 334
 Central Luzon State University 002, 067, 082, 259, 286-287, 382
 College of Agriculture and Fisheries 264
 Department of Agriculture 041
 ICLARM 003, 009, 012, 056, 061, 078, 096, 102, 117, 140, 148, 166, 194, 195, 212, 243, 294, 342, 348, 352, 353, 382, 435, 447
 IIRR 156
 Mariano Marcos State University 108
 Mindanao State University 046
 Pangasinan State University 001, 047, 124
 SEAFDEC 146, 184, 366, 378
 University of the Philippines 087, 144, 155, 279, 339
 University of the Philippines in the Visayas 026, 138
 University of San Carlos 112, 233

Saudi Arabia

Institute of Natural Resources and Environmental Research 016, 389

Sénégal

Centre de recherches océanographiques de Dakar Thiaroye 104-105

Singapore

National University of Singapore 107, 164, 232, 273, 396

Sri Lanka

National Aquatic Resources Agency 200
 University of Colombo 116
 University of Kelaniya 457
 University of Peradeniya 113
 University Ruhuna 372

St. Lucia

Caribbean Natural Resources Institute 399

Sudan

Red Sea Fisheries Research Centre 019, 120

Sweden

University of Stockholm 380

Tanzania

Institute of Marine Science 203
 Freshwater Fisheries Institute 263
 Marine Fisheries Research and Training Institute 412
 Regional Fisheries Office 037
 Sokoine University of Agriculture 211
 Tanzania Fisheries Research Institute 066

Thailand

AIT 114, 244, 246
 Aquastar Laboratories 134
 Aquatic Animal Health Research Institute 079, 425
 ASEAN-EEC AADCP 221, 307
 Chiangmai University 312
 Chulalongkon University 315
 Kasetsart University 285, 301, 424
 Maejo Institute of Agriculture Technology 272
 Mahidol University 400
 National Inland Fisheries Institute 197
 Trang Coastal Aquaculture Station 376

Tonga

Ministry of Fisheries 128

Tunisia

Ecole supérieure d'horticulture et d'élevage 024

UK

Agriculture and Fisheries Department, The Scottish Office 422
 Anthony Farmer & Associates 133
 British Columbia Packers Ltd. 306
 International Institute of Parasitology 217
 National History Museum 247
 Natural Resources Institute 453
 The University of Buckingham 388
 University College of Swansea 065
 University of Hull 064, 091
 University of Oklahoma 387
 University of Reading 205
 University of Stirling 054, 129, 178, 198, 268, 344, 356, 369, 373

USA

Agricultural Institute 048
 Bodega Marine Laboratory 179
 Caribbean Marine Research Center 452
 Clark Atlanta University 346
 Department of Agriculture 223
 Florida Marine Research Institute 458
 Hawaii Institute of Marine Biology 409
 Mauna Loa Research Institute 088
 Medical College of Ohio 401
 Michigan State University 398
 Southern Illinois University 408
 The Oceanic Institute 258
 The World Bank 472
 University of California 143, 347
 University of Hawaii 292
 University of Hawaii at Hilo 181
 University of Hawaii at Manoa 409
 University of Houston-Clear Lake 240
 University of Oklahoma 158, 387
 University of Texas at Austin 219
 University of Washington 434
 Virginia Commonwealth University 123
 Virginia Polytechnic Institute and State University 062, 171

USSR

Biological Institute of St. Petersburg 193

Venezuela

Instituto Oceanografico de Venezuela 345

Vietnam

Research Institute for Aquaculture 237
 University of Cantho 235-336, 238, 310-311, 313, 429

Zaire

Centre rural pour le développement intégré de Bonga-Yasa 029

Zambia

Fisheries Department 202

Zimbabwe

Henderson Research Station 042
 Lake Kariba Fisheries Research Institute 275

SECTION IV

Index of Major Fields of Research Interests

- behavior 010, 174, 226, 343, 380, 413, 423
 biochemistry 027, 115, 198, 249, 379, 396, 427
 bioenergetics 026, 035, 165, 225, 249, 315, 367, 369, 388, 436, 449
 biotechnology 002, 035, 073, 175, 185, 199, 263, 301, 338, 344, 356, 379, 395, 400, 429
 bivalves 019, 033, 049, 058, 071, 075, 090, 104, 116, 120, 136, 148, 160-161, 180, 192, 203, 211, 213, 247, 251-252, 295, 300, 340, 345, 383, 390, 421, 448, 450, 460, 463
 brackishwater aquaculture 005, 008, 046, 057, 059, 063, 068, 071, 086, 104-105, 133, 135, 138, 145, 159, 186, 190, 192, 199, 221, 236-238, 258, 261-262, 269, 282, 290, 292, 329, 335-336, 362, 365, 375-376, 415, 440, 445, 452, 462, 469
 broodstock 021, 066, 143, 337, 341; 370
 business development 359
- cages 014, 066, 147, 150, 275
 carps 176, 183, 245, 271, 326, 387, 444, 459
 catfishes 029, 037, 064, 115, 119, 126, 178, 197, 239, 245, 255, 274, 293, 324, 326, 331, 355, 449
 computer methods 140, 195, 352, 450, 462
 conservation 034, 140, 156, 214, 223, 242, 285, 325, 433, 434
 coral reefs 019, 097, 116, 161, 187, 200, 202, 219, 225, 294, 305, 433, 448
 crustaceans 005, 051, 071, 076, 089, 116, 127, 133, 157, 159, 186, 206, 221, 236-237, 307, 419, 430
 cryopreservation 175, 282, 356, 387, 400
 curriculum development 099-100, 121, 181
- detritus 187
 development 004, 029, 085, 101, 210, 259, 307, 364, 398, 422, 453
 diseases 016, 020, 079, 131, 157, 217, 253, 267, 314, 334, 385, 425
 DNA fingerprinting 107
- ecology 054, 063, 070, 096, 137, 172, 219, 220, 289, 292, 315, 320, 333, 350, 362, 371, 378, 398, 406, 422, 455, 465, 468
 economics 010, 012, 056, 238, 348, 372, 382, 424, 472
 ecophysiology 080, 112, 160, 225-227, 279, 388
 endocrinology 035, 146, 168, 207, 232, 249, 272, 413
 engineering 008, 102, 347
 environmental impact 015, 024, 052, 054, 081, 105, 112, 208, 289, 323, 381, 393, 395, 414, 451, 457, 465
 environmental studies 026, 053, 062, 109, 154, 159, 208, 228, 241, 264, 269, 311, 364, 369, 393, 395, 457-458
 extension 004, 085, 091, 108, 119, 156, 169, 177, 196, 209, 278, 317, 402, 437, 439, 453
- farming management 034, 057, 105, 120-121, 178, 221, 269, 306, 311, 335, 351, 397, 418, 443, 469
 farming systems research 018, 028, 039, 096, 099, 103, 105, 166-167, 180, 189, 201, 243, 246, 263, 284, 308, 311, 351-352, 361, 365, 371, 386, 398, 402, 440, 446
 feed technology 006, 039, 115, 119, 167, 176, 186, 190, 198, 237, 329, 404, 410, 444, 453-454
 finfish 115, 123, 129, 141, 143, 147, 165, 167, 181-182, 203, 223, 270, 302, 327, 386, 452, 454
 fisheries enhancement 084, 463
 foodchains 054, 315, 438
 freshwater aquaculture 001, 003, 013, 017-018, 023, 025, 027-029, 036-037, 040, 043, 045-047, 055, 060, 067, 073, 076, 078, 081-082, 085, 088, 091, 095, 098, 108, 111, 113, 115, 118, 124, 126, 137, 139, 145, 154, 162-163, 166, 169, 170, 172-174, 182, 185, 188, 190-191, 199, 204, 206, 208-209, 213, 222, 224, 227, 229, 234-235, 242, 245, 248, 254-255, 258, 265, 271, 274-277, 280-281, 287, 296-298, 306, 310, 312, 318, 321-322, 326-327, 329, 332, 336, 350, 353-354, 363, 365-366, 373-374, 382, 387, 389, 391-392, 394, 397-398, 400, 408, 415, 431-432, 437, 439, 442-445, 447, 462, 466, 467, 471-472
 freshwater prawns 271
- genetic resources 007, 044, 092, 117, 123, 175, 179, 207, 239, 242, 268, 356, 422, 426, 434, 451
 genetics 002, 022-023, 032, 048, 051, 065, 092, 107, 117, 142, 144, 147, 171, 183, 185, 248, 259, 264-265, 268, 301, 338, 344-345, 353, 366, 370, 379, 387, 407, 450, 459, 470
 giant clams 049, 058, 094, 130, 148, 155, 161, 219, 252, 279, 294, 390, 433
 growth 038, 083, 087, 097, 182, 226, 233, 249, 320, 342, 387, 427, 448
- habitat restoration 063, 155, 283
 hatchery technology 008, 033, 039, 048, 055, 075, 089, 118, 127, 130, 134, 173, 178, 185, 211, 271, 286, 303, 314, 319, 331, 365, 403, 420
 immunology 016, 131, 253, 385
- induced spawning 005, 017, 023, 036, 055, 074, 118, 127, 146, 162, 207, 215, 232, 260, 272, 286, 303, 324, 330, 337, 355, 370, 386-387, 391, 393, 420, 431-432, 460
 information 140, 359, 368, 414
 integrated farming systems 010, 012, 017, 040, 056, 061, 078, 081-082, 088, 091, 093, 098, 102, 105-106, 108, 110, 113-114, 139, 154, 156, 162, 167, 189, 202, 207, 209, 224, 235-236, 243-246, 254, 260, 276, 278, 283, 286, 309, 312-313, 317, 322, 326, 335-336, 352-353, 363, 365, 371, 373, 382, 391, 397, 398, 428, 430, 437, 441-443, 446, 472
- lagoons 116, 269, 383, 457, 465
 limnology 011, 059, 070, 158, 173, 277, 358, 374, 378, 405, 428
- marine aquaculture 019, 030, 033, 049, 051, 058, 066, 069, 075, 077, 089, 094, 099, 120, 128, 133, 136, 141-142, 148, 150, 155, 160, 163, 168, 180, 187, 202, 211, 213, 218, 247, 251-252, 258, 269, 270, 279, 298, 300, 302, 304-306, 325, 329, 330, 343, 354, 357, 359, 362, 364-365, 367, 383, 390, 398-399, 404, 412, 415, 419, 426, 429, 440, 452, 458, 464, 469
 marketing 308, 372, 414
 meiofauna 112
 microbiology 323
 modeling 068, 096, 117, 195, 212, 313, 347, 365, 436
- nutrition 001, 014, 027, 030-031, 042, 076, 083, 090, 093, 100, 106, 109, 129, 132, 145, 149, 164-165, 174, 176, 177, 188, 198, 215, 237, 249, 254, 263, 273-274, 296, 303, 307, 314, 319, 324, 328, 341, 349, 373, 375, 392, 396, 403-404, 410, 417, 427, 431-432, 445, 449, 454
- parasites 020, 079, 188, 217, 253, 267, 298, 354, 385, 401, 425
 pathology 016, 020, 030, 038, 069, 073, 079, 131, 135, 253, 267, 270, 425
 pearl culture 075
 pens 014
 pesticides 207, 310, 346
 physiology 009, 064, 087, 149, 168, 367, 369, 388, 396
 phytoplankton 378
 policy 004, 052, 171, 210, 250, 266, 283, 398
 pollution 015, 205, 328, 405
 pond dynamics 068, 110, 114, 138, 181, 194, 201, 244.

284, 343, 374, 409, 412, 436, 455
pond management 022, 057, 072, 105, 138, 169, 196,
206, 223, 269, 281, 288, 299, 319, 326, 375
population dynamics 011
population genetics 007, 009, 021, 092, 171, 179, 214,
230, 240, 339, 434
post-harvest technology 121, 372
production systems 103, 105, 166, 218, 220, 234, 290,
294, 351, 365, 418

quantitative genetics 002, 021, 050, 061, 143, 151-153,
179, 240, 293, 301, 339, 426, 447, 466

reproductive biology 384
reproductive physiology 022, 034, 095, 110, 146, 193,
207, 231, 239, 248-249, 285, 295, 330, 341, 350, 355,
380, 387, 394, 413, 442
reservoirs 060, 088, 100, 113, 257, 317, 358, 387, 405,
438, 467
resource economics 012, 250, 308, 381, 398, 418, 461

rice-fish farming systems 018, 036, 056, 072, 102, 105,
150, 172, 189, 196, 207, 224, 235, 243, 310, 312, 321,
360, 394, 398, 402, 441
river fisheries 456
rural sociology 363

seaweeds 041, 087, 184, 200, 207, 233, 325, 333, 365,
399, 418
seed production 032, 090, 124, 126, 130, 191, 197, 204,
215, 232, 295, 302, 309, 365, 403, 460, 464, 467
shrimps 368
site selection 210, 365, 412, 420
socioeconomics 141, 266, 313, 381, 418
software 122
species introductions 456
statistics 122, 195, 257, 269, 280, 377, 406, 418
stock assessment 011, 038, 052, 077, 094, 097, 122, 157,
203, 212, 233, 257, 266, 269, 276, 289, 304, 305, 315,
320, 377, 406, 435, 458, 464

taxonomy 007, 026, 214, 247, 333, 423
tilapias 031-032, 037, 040, 048, 060-061, 078, 083, 093,
103, 105-106, 124, 144, 149, 158, 163, 170, 183, 193,
197, 209, 234, 244, 246, 255, 259, 260, 265, 268, 281,
284, 290-291, 293, 316, 318, 322, 326-328, 331, 338,
345-346, 349, 366, 380, 387, 423, 428, 438-439, 446,
459
training 095, 216, 220, 227, 251, 278

waste-fed 072, 082, 105, 409, 410
wastewater (sewage) reuse 114, 282, 291, 346, 419
water quality 001, 015, 031, 059, 064, 070, 105, 192,
205, 218, 244, 269, 277, 309, 323, 347, 365, 409, 421,
455
water systems 193

zooplankton 105, 111, 158, 201, 222, 269

SECTION V

Index of Minor Fields of Research Interests

- behavior 137, 283, 331, 422, 464
 biodiversity 065
 biochemistry 256, 338, 365, 367, 400, 404
 bioenergetics 182, 198, 281, 284, 383, 396, 404
 biotechnology 045, 051, 076, 144, 171, 176, 183, 192, 231, 259, 285, 396, 407, 427, 448, 470
 bivalves 003, 041, 138, 150, 175, 179, 219, 337, 357, 386
 brackishwater aquaculture 013, 025, 027, 032-033, 036, 039, 066, 077, 081, 097, 102, 109, 147, 184, 207, 216, 223, 227, 234, 244, 249, 253, 265, 284, 296, 307, 316, 397, 414, 418, 435, 442, 444
 broodstock 040, 146, 207, 215, 232, 245, 253, 255, 279, 302-303, 359, 391, 426
- cages 011, 054, 085, 093, 197, 204, 234, 286, 306, 318, 358, 363, 376, 402, 440, 471
 carps 040, 074, 107, 114, 152, 182, 196, 218, 227, 248-249, 286, 393, 413, 443
 catfishes 007, 017, 074, 078, 182, 285, 423, 440, 443
 computer methods 005, 014, 026, 038, 070, 091, 105, 112, 169, 192, 219, 230, 257, 269, 294, 305, 308, 326, 338, 369, 373, 429, 435, 445-446, 455, 466
 conservation 004, 044, 051-052, 081, 121, 135, 143, 171, 220, 233, 293, 322, 350, 353, 432, 463, 467
 coral reefs 034, 058, 148, 155, 203, 226, 233, 295, 330, 343, 399, 463
 crustaceans 030, 063, 080, 111, 131, 174, 179, 240, 273, 339, 375, 417, 440
 cryopreservation 183, 199, 231, 245, 248, 268, 330, 447
 curriculum development 171, 227, 278, 369
- deuration 460
 detritus 054, 206, 346, 455
 development 106, 283, 361, 365, 402, 408, 415
 diseases 037-038, 118, 134, 220-221, 258, 274, 306, 323, 363
- ecology 023, 077, 095, 101, 111, 129, 140, 147, 188, 207, 229, 243, 281, 283, 294, 298, 305, 325-326, 330, 340, 353-354, 365, 383, 393, 409, 457-458, 462
 economics 057, 105, 127, 160, 308, 371, 381, 461
 ecophysiology 026, 064, 158, 281, 325, 436
 endocrinology 119, 185, 255, 387, 393-394, 396
 engineering 118, 192, 365, 409, 446
 environmental impact 030, 051, 063, 084, 091, 096, 133, 142, 169, 176, 186, 219-220, 243, 274, 312, 365, 378, 428, 453
- environmental studies 004, 019, 059, 072, 094, 141, 175, 191, 194, 200, 202, 207, 225, 235, 244, 249, 251, 276, 282, 321, 365, 385, 388, 405, 418, 431-432, 442, 468
 extension 025, 039, 057, 059, 060, 154, 161, 202, 218, 254, 279, 331, 335, 363, 431
- farming management 008, 012, 063, 072-073, 091, 101, 106, 127, 148, 163, 182, 185, 271, 298, 354, 406, 415, 421
 farming systems research 012, 032, 040, 048, 056, 072, 083, 117, 178, 237-238, 253, 278, 290-291, 293, 303, 312, 329, 331, 335, 360, 382, 394, 410, 412, 428, 449
 feed technology 014, 027, 090, 100, 254, 269, 271, 274, 307, 355, 365, 469
 finfish 027, 050, 076, 080, 140, 177, 179, 186, 273, 324, 362, 376, 464, 468
 fisheries enhancement 306
 fishery management 456
 foodchains 088, 158, 257, 277, 289, 290, 315, 436
 freshwater aquaculture 009, 014, 020, 041, 059, 061, 064-065, 070, 089, 100, 102, 105-106, 131-132, 144, 149, 151, 185, 189, 193, 205, 207, 214-215, 223, 237, 260, 278, 288, 299, 303, 307, 324, 344, 355, 385, 405, 413-414, 417, 420, 423, 430, 449, 451, 454
- genetic resources 032, 107, 143, 214, 240, 264-265, 293, 344-345, 462, 466
 genetics 001, 015, 076, 126-127, 195, 197, 199, 245, 258, 336, 427, 458
 giant clams 019, 124, 258
 growth 068, 104-105, 115-116, 147, 149, 160, 174, 181, 239, 279, 289, 322, 422, 436, 462
- habitat restoration 052, 156, 365
 hatchery technology 005, 010, 036, 058, 071, 074, 086, 090, 162-163, 180, 186, 190, 251, 260, 263, 269, 274, 282, 326, 338, 356, 390-391, 404, 407, 434, 444, 452, 467
- immunology 079, 267, 354
 induced spawning 035, 068, 073, 107, 115, 180, 246, 259, 269, 300, 301, 448, 452, 467
 information 004, 115, 365
 integrated farming systems 001, 013, 015, 029, 036, 047-048, 059, 060, 064, 092, 096, 119, 135, 174, 181, 194, 204, 237, 272, 282, 287, 291, 302, 311, 316, 346-348, 350, 394, 402, 406, 410, 419, 439, 455, 467
- integrated pest management 172
- lagoons 092, 202, 329, 463
 limnology 018, 020, 023, 053, 110-111, 139, 149, 220, 225, 289, 329, 341, 472
- marine aquaculture 010, 017, 023, 068, 081, 093, 100, 130, 138, 151, 153, 161, 184, 186, 203, 214, 216, 221, 249, 294-295, 333, 335-336, 340, 406, 433, 444, 454, 460
 marketing 071, 105, 313, 381, 415, 424
 microbiology 016, 131, 233, 267, 334
 milkfish 059, 146, 250
 modeling 026, 097, 160, 257, 311, 326, 342, 352, 367, 371, 377, 445
- nutrition 006, 035, 037, 045, 049, 078, 115, 118, 134, 141, 154, 196, 199, 206, 218, 232, 236, 269, 276, 327, 355, 359, 376, 379, 397, 412, 469
- parasites 016, 038, 400
 pathology 247, 365, 379, 385
 pens 434
 pesticides 015, 154, 228, 267, 287, 453
 physiology 010, 049, 069, 116, 140, 146, 328, 343
 phytoplankton 011, 058, 233, 241, 347, 358, 409
 plankton 392
 policy 097, 123, 230, 348, 386, 467
 pollution 024, 221, 225, 228, 249, 275-276, 302, 323, 341, 350, 388, 395, 432, 457
 pond dynamics 018, 048, 082, 088, 277, 290, 292, 322, 326, 347, 352, 362, 419, 449, 472
 pond management 029, 053, 059, 078, 086, 119, 156, 162, 173, 190, 224, 234, 255, 329, 359, 397, 410
 population genetics 044, 061, 117, 143, 245, 259, 268, 305, 320, 344-345, 366, 426-427, 458
 post-harvest technology 057, 287, 420, 431, 460
 predators 161
 production systems 031, 088, 110, 148, 178, 206, 239, 313, 336, 389, 408, 420, 426, 439, 460
 public health 217, 220, 401
- quantitative genetics 034, 345, 366, 411
- reproductive physiology 024, 035, 061, 126, 137, 164, 192, 196, 245, 269, 356, 400, 422, 447
 reservoirs 018, 095, 124, 159, 169, 457, 470-472

- resource economics 052, 054, 056, 105, 121, 128, 312, 372, 424
- rice-fish farming systems 046, 059, 078, 082, 085, 096, 110, 133, 156, 162, 170, 173, 241, 246, 311, 382, 418, 439, 467
- rural sociology 064, 105, 136, 224, 313, 398, 414, 419
- seaweeds 203, 226, 433
- seed production 021, 033, 095, 145, 155, 180, 190, 224, 260, 269, 324, 327, 356, 375, 413, 447
- shrimps 133, 134
- site selection 059, 070, 073, 130, 141, 145, 155, 192, 333, 369, 386, 448
- socioeconomics 012, 056, 071, 084, 094, 105, 235, 243, 308, 361, 372, 382
- software 005, 112, 192, 195, 198, 235, 315, 326
- statistics 019, 059, 192, 212, 277, 289, 315, 373, 390, 411, 445-446, 466
- stock assessment 007, 033, 060, 084, 130, 173, 176, 192, 226, 265, 284, 294, 312, 341, 373-374, 383, 390, 412, 439, 448
- taxonomy 126, 193, 268, 325, 434, 468
- tilapias 001, 003, 007, 017, 020-021, 029, 030, 047, 059, 085, 089, 092, 102, 109, 114, 132, 145, 152-153, 164, 181, 195-196, 198, 239, 240, 248-249, 254, 263, 269, 271, 280, 286, 289, 323, 339, 389, 443, 451-452, 454
- trade 251
- training 039, 102, 163, 178, 195, 263, 298, 312, 361
- waste-fed 114, 189, 246, 274, 346, 439
- wastewater (sewage) reuse 028, 170, 352-353, 378, 395
- water quality 011, 043, 049, 067, 082, 089, 102, 112, 115, 134, 158-159, 274, 287, 343, 378, 387-388, 391, 395, 405, 425, 428
- water systems 059, 098, 223
- zooplankton 043, 090, 159, 188, 297, 358, 362

APPENDIX 1

Descriptors for NTAS Members*

01	behavior	36	genetic resources	71	reservoirs
02	biochemistry	37	genetics	72	resource economics
03	bioenergetics	38	giant clams	73	rice-fish farming systems
04	biotechnology	39	growth	74	rural sociology
05	bivalves	40	habitat restoration	75	seaweeds
06	brackishwater aquaculture	41	hatchery technology	76	seed production
07	broodstock	42	immunology	77	site selection
08	cages	43	induced spawning	78	socioeconomics
09	carps	44	information	79	software
10	catfishes	45	integrated farming systems	80	statistics
11	computer methods	46	lagoons	81	stock assessment
12	conservation	47	limnology	82	taxonomy
13	coral reefs	48	marine aquaculture	83	tilapias
14	crustaceans	49	marketing	84	trade
15	cryopreservation	50	meiofauna	85	training
16	curriculum development	51	microbiology	86	waste-fed
17	depuration	52	milkfish	87	wastewater (sewage) reuse
18	detritus	53	modeling	88	water quality
19	development	54	nutrition	89	water systems
20	diseases	55	parasites	90	zooplankton
21	ecology	56	pathology	91	biodiversity
22	economics	57	pens	92	business development
23	ecophysiology	58	pesticides	93	DNA fingerprinting
24	endocrinology	59	physiology	94	fisheries enhancement
25	engineering	60	phytoplankton	95	fisheries management
26	environmental impact	61	policy	96	freshwater prawns
27	environmental studies	62	pollution	97	integrated pest management
28	equipment	63	pond dynamics	98	pearl culture
29	farming management	64	pond management	99	plankton
30	extension	65	population genetics	100	population dynamics
31	farming systems research	66	post-harvest technology	101	predators
32	feed technology	67	production systems	102	reproductive biology
33	finfish	68	public health	103	river fisheries
34	foodchains	69	quantitative genetics	104	shrimps
35	freshwater aquaculture	70	reproductive physiology	105	species introduction

*Descriptors 01-90 were provided in the NTAS questionnaire; descriptors 91-105 were given by members.

APPENDIX 2

Acronyms of International Institutions

AIT	Asian Institute of Technology
AADCP	Aquaculture Development and Coordination Programme
ASEAN	Association of South East Asian Nations
CIDA	Canadian International Development Agency
DANIDA	Danish International Development Agency
EEC	European Economic Community
FAO	Food and Agriculture Organization of the United Nations
GTZ	Deutsche Gesellschaft für Technische Zusammenarbeit, GmbH
ICLARM	International Center for Living Aquatic Resources Management
IDRC	International Development Research Centre of Canada
IIRR	International Institute of Rural Reconstruction
SEAFDEC	Southeast Asian Fisheries Development Center
UNDP	United Nations Development Programme

APPENDIX 3

Country and Area/City Codes

COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE	COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE
Argentina	54	San Antonio Oeste	934			Georgetown	416
Australia	61	Brisbane	7			Halifax	902
		Cairns ^a				Hull	819
		Darwin	89			Montréal	514
		Deception Bay ^a				Ottawa	613
		Launceston ^a				Québec	418
		Melbourne	3	Chile	56	Iquique	57
		Tasmania	2			Osorno	64
		Townsville	77			Valdivia	63
		Walkamin ^a					
Warrnambool ^a				China	86	Beijing	1
Bangladesh	880	Chandpur	841			Guangzhou	20
		Dhaka	2			Qingdao	532
		Jessore	421			Shanghai	21
		Mymensingh	91			Wuhan	27
		Rangamati	351			Wuxi	510
Belgium	32	Brussels	2	Colombia	57	Pasto Nariño	30
		Ghent	91				
		Louvain-la-Neuve	10	Cook Islands ^b	682		
		Namur	81	Costa Rica ^b	506		
		Tervuren ^a		Côte d'Ivoire ^b	225		
Brazil	55	San Paulo	11	Cuba	53	Havana	7
Brunei	673	Gadong ^a		Cyprus	357	Limassol	51
Burkina Faso ^b	226			Denmark	45	Århus C ^a	
Cambodia ^a				Ecuador	593	Guayaquil	4
Cameroon ^b	237			Egypt	20	Cairo	2
Canada	1	British Columbia	604			Muscat ^a	
		Fredericton	506				

COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE	COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE
Ethiopia ^b	251					Semarang	24
Fiji ^b	679					Sumedang	22
France	33	Cedex ^a		Israel	972	Bet Dagan	3
		Port-en-Bessin-Huppain ^a				Gan Samuel	6
		Toulouse	61			Hof Hacarmel	6
						Tel Aviv	3
Gambia ^b	220			Italy	39	Rome	6
Germany	49	Bad Homburg	6172	Japan	81	Hyogo-ken	798
		Berlin	30			Ibaraki	298
		Göttingen	551			Kochi	888
		Humburg	40			Okinawa	980
		Neu-Isenburg	6102	Kenya ^b	254		
Ghana	233	Accra	21	Kuwait ^b	965		
		Kumasi	51	Madagascar	261	Antsirabe ^a	
Greece	30	Athens	1	Malaŵi	265	Domasi ^a	
Guatemala	502	Zona 10 ^a				Lilongwe ^a	
India	91	Bangalore	812			Mzuzu ^a	
		Bombay	22			Zomba	50
		Cochin	484	Malaysia	60	Kuala Lumpur	3
		Karnataka	824			Melaka	6
		Kerala State	491			Penang	4
		Kharagpur ^a				Sabah	88
		Kochi ^a				Selangor	3
		Madras	44	Mauritius ^b	230		
		Madurai	452	Mexico	52	Baja California Sur ^a	
		Nellore ^a				Codigo Postal ^a	
		New Delhi	11			Jalisco	36
		Orissa ^a				Lomas de Chapullepec ^a	
		PO Calicut-5 ^a				Michoacan ^a	
		Pune ^a		Micronesia	691	Pohnpei ^a	
		Ramanathapuram District	457			Yap	350
		Sriniketan ^a		Morocco	212	Rabat	7
		Tamil Nadu ^a		Mozambique	258	Maputo	21
		Tuticorin ^a		Myanmar	95	Yangon	1
Indonesia	62	Ambon	911				
		Bogor	251				
		Jatinangor ^a					
		Manado	431				
		Mataram	364				
		Padang SumBar	751				
		Selatan	411				

COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE	COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE
Netherlands, The	31	AH Wageningen	8370	Sri Lanka	94	Colombo	1
New Caledonia ^a						Kelaniya ^a	
New Zealand	64	Wellington	4			Matara	41
Nicaragua	505	Managua	2			Peradeniya ^a	
Nigeria	234	Abgokuta	39	St. Lucia	1	Vieux Fort	809
		Calabar	87	Sudan ^a			
		Ibadan	22	Taiwan ^d	886	Pingtung	8
		Ilorin	31	Tanzania ^b	255		
		Lagos	1	Thailand	66	Bangkok	2
Norway	47	Ås	9			Changmai	53
		Bergen	5			Sawan	56
		Matredal	5			Songkhla	74
Pakistan	92	Lahore ^a				Trang	75
		Thatta ^a		Tonga ^b	676		
Panama ^b	507			Tunisia	216	Sousse	3
Papau New Guinea ^b	675			USA	1	Atlanta	404
Perú	51	La Molina	414			Austin	512
		Lima	14			Blacksburg	703
Philippines	63	Albay ^a				Bodega Bay	707
		Catanduanes ^a				Carbondale	618
		Cebu	32			Davis	916
		Ilocos Norte ^a				Guam	671
		Iloilo	33			Hawaii	808
		Makati	2			Houston	713
		Manila	2			Kingston ^a	
		Nueva Ecija ^c	902			Muscle Shoals	205
		Quezon City	2			Michigan	517
		Rizal ^a				Norman	405
Saudi Arabia	966	Riyadh	1			Richmond ^a	
Sénégal ^b	221					San Diego	619
Singapore ^b	65					Seattle	206
Solomon Islands ^b	677					St. Petersburg	813
Spain	34	Malaga	52			Toledo	419
						Vero Beach	407
						Washington	202
				UK	44	Buckingham	280
						Chatham	634
						Denbigh ^a	
						Dorset ^a	

COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE
		Dorchester ^a	
		London	71
		Hull ^a	
		Perthshire	796
		Stirling	786
		St. Albans ^a	
USSR	7	St. Petersburg ^a	
Venezuela	58	Cumana	93

COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE
Vietnam	84	Cantho	71
		Ha Bac	42
		Hochi Minh City ^a	
Zimbabwe	263	Harare	4
		Kariba	61

^aCheck your local operator.

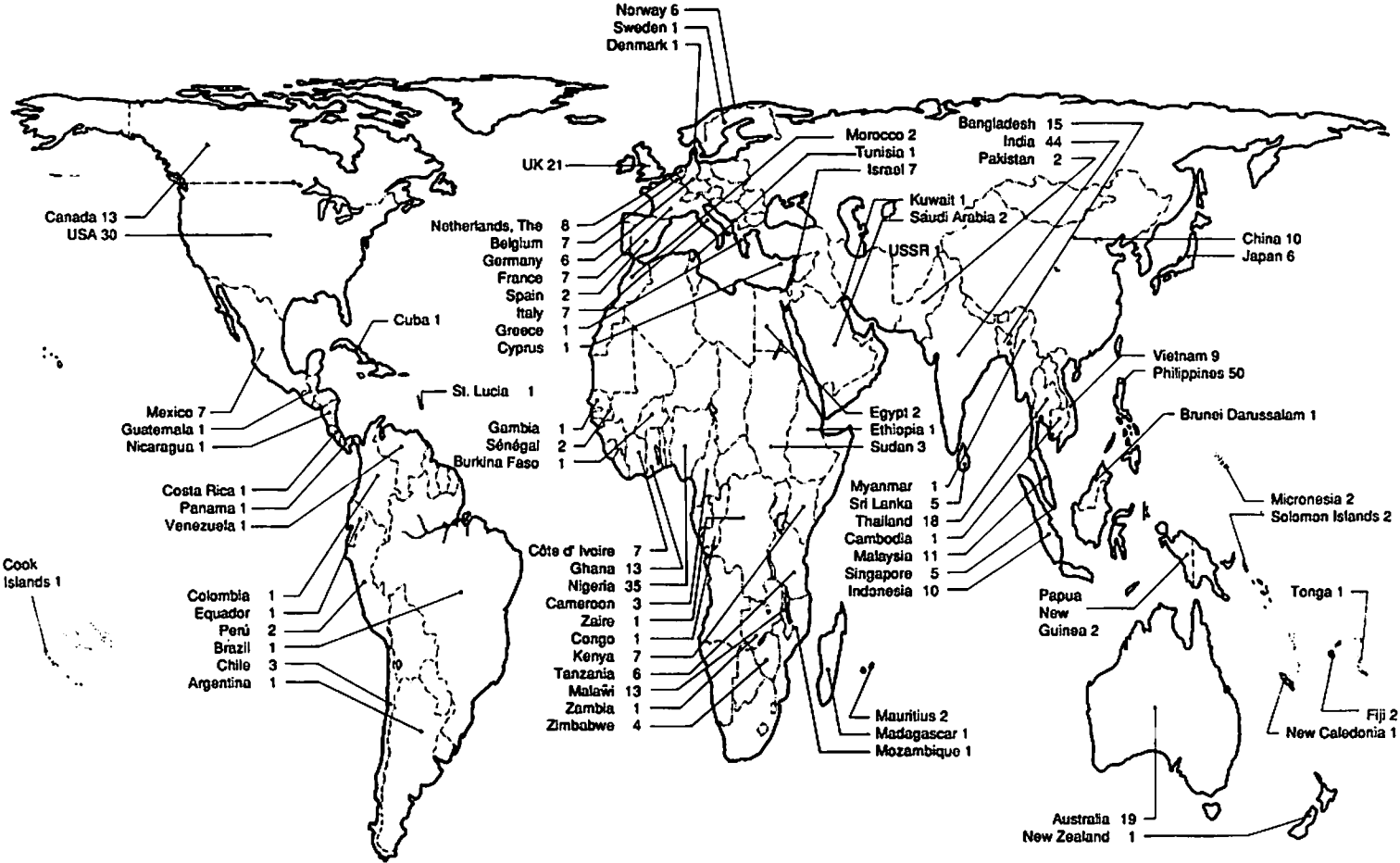
^bArea/City code not needed.

^cAll entries for Nueva Ecija, Philippines are cellular phones.

^dSeparate country for communication codes but merged under China in all country listings.

APPENDIX 4

Map of NTAS Members



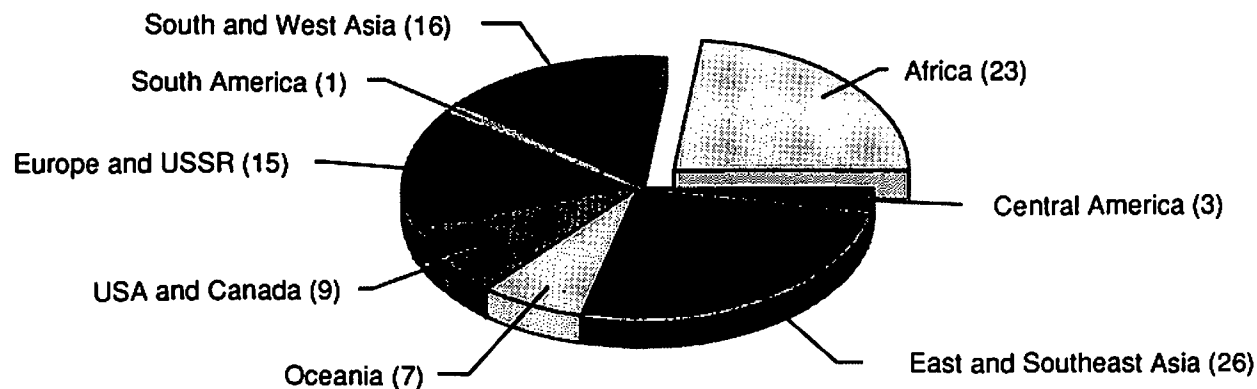
APPENDIX 5

Regional Distribution of NTAS Members

A. Regional Subtotals

Region	Number of members	Number of countries
East and West Asia	122	8
Africa	108	11
South and West Asia	77	22
Europe and USSR	71	13
USA and Canada	43	3
Oceania	31	9
Central America	13	7
South America	7	5

B. Regional Distribution of Membership (%)





Worldwide distribution of members of
the Network of Tropical Aquaculture Scientists



**International Center for Living Aquatic
Resources Management**

The International Center for Living Aquatic Resources Management (ICLARM) is an autonomous, nongovernmental, nonprofit, international scientific and technical center which has been organized to conduct, stimulate and accelerate research on all aspects of fisheries and other living aquatic resources.

The Center was incorporated in Manila in March 1977. It became a member of the Consultative Group for International Agricultural Research (CGIAR) in May 1992.

ICLARM is an operational organization, not a granting entity. Its program of work is aimed to resolve critical, technical and socioeconomic constraints to increased production, improved resource management and equitable distribution of benefits in economically developing countries. The Center's work focuses in tropical developing countries on three resource systems - inland aquatic (mainly ponds and rice floodwaters), coastal and coral reef - in which research is carried out on their dynamics, on investigating alternative management schemes, and on improving the productivity of key species. The work includes cooperative research with institutions in developing countries, and supporting activities in information and training: The programs of ICLARM are supported by a number of private foundations and governments.

Policies are set by a Board of Trustees with members drawn from the international community. Direction at ICLARM, under the policies set by the Board, is the responsibility of the Director General.