



AUSTRALIA NEW GUINEA FISHES ASSOCIATION

1991

**NATIONAL CONVENTION
OCTOBER 19-20
MELBOURNE AUSTRALIA**



Index of Convention Speakers

Dr. Gerald R. Allen	3
Neil Armstrong	3
Heiko Bleher	4
Ron Bowman	5
John Coates	5
Adrian Dawson	6
Wayne Fulton	6
Bruce Hansen	7
Noel Harcourt	7
Effie Howe	8
Dr. Walter Ivantsoff	8
Bryan Pierce	9
Heinze Staude	10
Peter Unmack	11
Rob Wager	12

Convention Sponsors

ANGFA appreciates the magnificent support given to this Convention by our 33 sponsors.

Alexandra Traders	J.B. Hi Fi Camberwell
All Aquarium & Pet Supplies	Lots of Fins
Aqacenta	Malcolm Thompson Pumps
Aqua Life	Native Fish Australia
Aquarium Northcote	Native Fish Farms
Aquatic Art	Pet & Aquarium Industries
Aquasonic	Pet & Livestock Supermarket
Aristopet Pty. Ltd.	Pet Pacific
Gary Backhouse	Pisces Enterprises
Blackburn Aquarium	Rayonne Aquarium
B.P. Refinery (Bulwer Island, Qld.) Limited	Rena Products
Buchanan & Hewitt (Retravision)	Royal Melbourne Zoological Gardens
Camera Exchange	Total Aquatic Products
Commonwealth Bank	Video Selection
Eildon Caravan Park	Wardleys-T.F.H.
Fish Haven	Dave Wilson
Harvey World Travel (Essendon)	



ANGFA National Council

Ken Smales. Chairman. Member Magazine Committee.
51 Cooper Avenue North Alton, Victoria. 3025. Phone: (03) 391 5225
Alex Caughey. Secretary. Editor ANGFA Bulletin. Member Magazine Committee.
Special Projects Officer.
P.O. Box 14, Eildon, Vic. 3713. Telephone: (057) 742 330
June Caughey. Treasurer. Member Magazine Committee.
P.O. Box 14, Eildon, Vic. 3713. Telephone: (057) 742 330
Ron Bowman. Editor Fishes of Sahul. Chief Advisor Magazine Committee.
49 Chadstone Road, Chadstone, Vic. 3148. Telephone: (03) 568 8144
Neil Armstrong. Journal Co-ordinator. Photographer. Member Magazine Committee.
34 Tarana Avenue, Glenroy, Vic. 3046. Telephone: (03) 306 4079
Neil Smith. Member Magazine Committee.
4 Westgate Way, East Keilor, Vic. 3033
Sylvia Gilbert.
118 Lauriston Drive, Coldstream. Victoria 3770
Peter Unmack.
161 High Street, Doncaster. Vic. 3108
Adrian Dawson (Queensland).
Campbell's Pocket Road, Wamuran, Queensland. 4512. Telephone: (071) 96 6649
Bruce Hansen (Queensland).
170 Bray Road, Lawnton, Queensland. 4501. Telephone: (07) 285 2782

Convention Organisers

Neil Armstrong
Ron Bowman
Alex Caughey
June Caughey
Sylvia Gilbert
Ken Smales
Neil Smith
Peter Unmack

with invaluable assistance from:

Rick Datodi	Alan Hawkins
Adrian Dawson	Peter Surmon
Bruce & Margaret Grose	Andy Wattam
Bruce Hansen	Dave Wilson
Noel Harcourt	

with heartfelt gratitude to various wives who have tolerated these activities.



Dr. Gerald R. Allen
Senior Curator, Dept. of Ichthyology,
W.A. Museum, Perth.

Neil Armstrong
ANGFA Melbourne

Topic of Lecture:

1991 EXPEDITION TO IRIAN JAYA

An illustrated talk will provide details of his most recent visit to Irian Jaya during May of 1991. This was one of the most exciting of his numerous trips to New Guinea as he was able to visit several areas that had not been previously sampled. The itinerary included collection stops at Lake Sentani, Danau Bira (Lake Holmes), the Triton Lakes, Mamberamo Plains, and Yapen Island. One of the highlights was a trek to Lake Kamaka, one of the Triton Lakes, where three new species were discovered, including a new rainbowfish related to the Kutubu rainbow. Two additional new rainbows were obtained on this trip and several other species were photographed for the first time, including the stunning Dwarf Rainbow (*Melanotaenia praecox*).

About Dr. Gerald R. Allen:

Born in Los Angeles, California in 1942. He received a PhD degree in marine zoology from the University of Hawaii in 1971. Much of his research has been devoted to coral reef fishes, but in 1974 he participated in a freshwater collecting expedition to the Kimberleys in north-western Australia. Since this trip Dr. Allen devotes about 50% of his research time to the study of freshwater fishes, particularly rainbowfishes, gobies, and gudgeons of northern Australia and New Guinea. His publication record includes more than 160 scientific articles and 16 books. Dr. Allen has described approximately 250 new species of fishes including 65 marine damselfishes (family Pomacentridae) and 35 species of rainbowfishes and blue-eyes. Dr. Allen and his wife of 27 years, Connie, reside in Perth with sons Tony and Mark.

Topic of Lecture:

THE FISHES OF SAHUL

Slide show with commentary and discussion.

About Neil Armstrong:

Neil combines a talent for growing aquatic plants with an insatiable curiosity for the fishes that swim in our rivers. He has collected from the streams across southern Victoria, where he first began collecting as a youngster, right up the eastern drainage to the Pascoe River, Cape York.

Neil has a great memory for details of the fish he collects and keeps, and those who have heard him discuss his hobby are inevitably caught up in his enthusiasm and benefit from his knowledge.

When his old school friend Barry Crockford collected during several trips to New Guinea in the early eighties, Neil looked after the in-coming shipments and enthusiastically photographed the new treasures.

A foundation member of ANGFA, Neil has been generous with time and effort in taking thousands of photographs until today his photographs have appeared in aquarium publications throughout the world.

Now retired, Neil will have more time for his hobbies and we in ANGFA look forward to seeing his slides and prints in the coming years.

Tel: 670 1929

THE CAMERA EXCHANGE

364 Lonsdale Street, Melbourne

John Corneille
Roger Teperman
Tony Dugan
Nick Fisher

Mon-Thurs. 10 a.m.-5.45 p.m.
Friday 10 a.m.-8.00 p.m.
Saturday 10 a.m.-1.00 p.m.



T O T A L
A Q U A T I C
P R O D U C T S P / L

IMPORTERS,
MANUFACTURERS,
WHOLESALEERS,
OF AQUARIUM,
POND AND ALLIED
PRODUCTS.

31 Whitehill Avenue, North Sunshine,
Victoria, Australia 3020
Box 10/91 McIntyre Rd., Sunshine 3020
Tel: 61 + (03) 366 2795 Fax: 61 + (03) 366 3254

MANAGING DIRECTOR
GARY TRAPANI



Heiko Bleher

Aquarium Rio, Darmstadter Landstrabe 3b,
D-6073 Egelsbach, Federal Republic of Germany

Topic of Lecture:

AFRICAN SAFARI

About Heiko Bleher:

Born in an air raid shelter in 1944 in the 80% war-damaged city of Frankfurt on Main, his development into probably Germany's most important international exporter of tropical fishes and discoverer of new species is so adventurous and eventful that it can only be described here in brief detail. His grandfather; Adolf Kiel after numerous collecting trips, founded what was early this century, Frankfurt's largest aquatic plant and tropical fish establishment. Heiko's mother, Amanda Bleher, continued the tradition with yet greater application and energy. The international press named her "The woman with the heart of Tarzan". Crash-helmeted on a motorcycle, she travelled throughout Europe and northern and central Africa. Her travelling ended with all four children (Heiko was the youngest) deep in South America. Starting at Rio de Janeiro, she went off with the children into the deep Brazilian jungle, into the Matto Grosso region, and lived there with the Indians for 6 months, searching for new plants and fishes. These experiences left their mark on Heiko, his future was pre-ordained.

Back in Germany in 1955, he attended school till 1960. Then back to Rio de Janeiro. Mother Amanda had set up a farm for aquatic plants, orchids and fishes at the city's edge. Heiko worked on the farm for four years and also looked for rare fishes and plants in the jungles of Goias, Minas Gerais, Parana, Para and the Amazon. Then to the United States for further study (biology, ichthyology, parasitology, limnology and oceanography). During his studies he set up a plant station for Dr. H.R. Axelrod's Gulf Fish Farms in Florida. After this two-year stay he went back to Brazil and opened his own fish-catching and collecting stations in three states. In 1967 he returned to Germany and opened Aquarium Rio in Frankfurt on Main.

Heiko Bleher is an unusually vibrant, versatile personality. He speaks seven languages fluently, writes (more than 100 publications in five continents, two books), shoots documentaries for TV (7 so far) and is an enthusiastic photographer. Heiko neither smokes nor drinks and eats mainly vegetarian food. Only the Frankfurt national dish, spare-ribs and sauerkraut can tempt him. There is no doubt that like his ancestors he is an outstanding businessman. His own travel agency enables him to finance his expeditions. Experienced professional breeders see to reproducing his new and re-introduced species.

Heiko Bleher supplies the wholesale trade and zoological gardens worldwide with newly discovered species and those which have died out in the wild. Because of his experience with fish, his aquarium installation at Frankfurt is exemplary; among other things, he has introduced automatic water changes to the well being of the fishes.

When asked by Dr. Eduard Schmidt-Focke what motiv-

ated him to put his life at risk time and time again on hazardous expeditions, Heiko's reply was that the purpose of his life was to search for rare and undiscovered fishes before most natural paradises are finally destroyed by mankind, and his hope was to maintain the species in this way.

Many species of fishes which he has discovered have already been named after Heiko Bleher, including the popular red-headed tetra *Hemigrammus bleheri*, and the wine-red rainbowfish *Chilatherina bleheri*. We are indebted to him for almost innumerable species which now swim in European aquariums. Rainbow fishes such as *Melanotaenia boesmani*, *Melanotaenia lacustris*, *Melanotaenia trifasciata*, *Glossolepis wanamensis*, *Pseudomugil furcatus*, *Pseudomugil connieae*, *Pseudomugil mellis* and *Pseudomugil gertrudae*. He was the first to bring many characins into Germany, such as *Aphyocharax rathbuni* and *Aphyocharax paraguayensis*, *Belonophago tinanti*, *Hemigrammus ulreyi*, *Hyphessobrycon amandae* (named after Mrs Amanda Bleher), *Inpaichthys kerri*, *Micralestes stormsi*, *Mimagoniates barberi*, *Paracheirodon simulans*, *Petitella georgia*, *Triportheus angulatus* and *Triportheus rotundatus*. Barbs such as *Barbus candens* and *Sawba resplendens*. Many cichlids including *Hemichromis lifalili*, various *Nanochromis* and *Pelvicachromis* species, *Acaronia nassa*, some well known *Aequidens* and *Apistogramma* species, many Cichlid species from Central America, *Crenicara filamentosa* and *Crenicara maculata*, *Geophagus balzanii* and *Geophagus steindachneri*, most *Discus* morphs such as the Blue-headed Heckel, the Royal Blue and Royal Green, Gypsy, Tefe and Manacapura, the true *Pterophyllum altum* etc. Amongst Catfishes the list is still longer, including the majority of armoured catfishes (*Aspidoras*, *Brochis*, *Corydoras*) and *Synodontis*, *Chiloglanis* and *Glyptothorax* (most recently the ornamental *Glyptothorax burmanicus*), *Ancistrus*, *Rineloricaria* and *Peckoltia*, the fabulous *Liosomadoras oncinus* and *Merodontodus tigrinus*. He has also been active amongst the killies: *Aphyosemion*, *Epiplatys*, *Hylopanchax*, *Hypsopanchax*, *Rivulus*, *Cynolebias*, *Neofundulus*, *Pterolebias* and *Trigonectes* species reached the trade through him. Nor must we forget the rare freshwater ray and the first freshwater swordfish which hit the world press in 1983. Then there were the Arowanas such as *Osteoglossum ferreirai* and *Scleropagus leichardti*, and the Knifefishes of various species, several of the resplendent gobies such as *Tateurndina ocellicauda* and *Ophieleotris aporos*, and others to follow if he has a bit of luck. To enrich the fishkeeping world Heiko Bleher has now gone even further and after two years intensive planning, has had a mobile Noah's Ark built. With the Heiko-Mobile he intends to open up the last unexplored places on earth.

ANGFA would especially like to thank DUPLA for allowing us to publish this condensed version of the biographical article by Dr. E. Schmidt-Focke which originally appeared in the 2/88 edition of Today's Aquarium.



Ron Bowman

ANGFA Melbourne

Commercial Art Teacher (retired), Advertising Artist

Topic of Lecture:

RAINBOWFISH FRY: HATCHING AND REARING.

There will be some brief personal observations to be followed by a panel discussion.

Questions and Topic suggestions will be invited from the floor and should be submitted to Ron on Saturday. ANGFA sees the need to give attendees some time within the convention format to exchange observations in public forum.

About Ron Bowman:

Built his first goldfish pond in 1937 at the age of 12. Three more followed within two years, one of which was designed for breeding and fry rearing.

Discovered Tropical Fish in 1955 and was fascinated by the prospect of breeding them.

Joined the Aquarium Society of Victoria that year.

Designed and edited the A.S. of V. magazine 'finchat' which became well known nationally.

During the next twenty odd years Ron registered 52 species with A.S. of V. as bred for the first time in that Society – the first of these was *Melanotaenia splendida splendida* in the late fifties. He has spawned and raised over 220 species in the past 36 years with some forty of those being Australian and New Guinea species.

Invitations came in the 70's to judge major aquarium shows, and Ron judged in Hobart, Brisbane and Adelaide.

Eastern Districts Aquarium Society made Ron a Patron of that Society in 1980.

The proposed formation of a national study group for indigenous fish species interested Ron and during the first meeting he coined the word ANGFA and sketched a cover proposal for the Journal.

Meanwhile Ron's aquaristic activities had grown until he had 3 fish rooms with 200 tanks, ponds, and containers to keep up with.

Fishes of Sahul began in 1983 with Ron responsible for design, editing and camera ready art.

Then came an idea that egg posting might be a way of getting Rainbowfish species into other countries. Ron envisaged pioneering this program but found himself flying solo and overworked after a few years. Many species were introduced into various countries and Ron had an emotional reward for his Belgium efforts when Gilbert Maebe put on his famous slide lecture at the last ANGFA Convention in Brisbane.

Ron is still actively involved in ANGFA National with the current graphics of 'THE FISHES OF SAHUL' map and photo display and enlarged badge coming out of his studio.

This year he illustrated *Iriatherina werneri* in colour and hopes to produce a series of illustrations of the various *M. trifasciata* morphs.

John Coates

Secondary Teacher

Eltham High School

Topic of Lecture:

PROBLEMS AND SOLUTIONS IN COLLECTING NATIVE FISH

The purpose of this discussion will be to concentrate on just a few of those distinctions that are relevant to the piscatorial nature of the October conference, with particular reference to north-west WA, mainland NT, Melville and Bathurst Islands off the north coast of NT. As John and partner explored the relatively remote regions listed above their interest soared with respect to the fish fauna found in the many streams that they passed over daily. They observed, swam with, collected and transported successfully a variety of fish back home to Melbourne from towns such as Derby, Kununurra and Darwin where they have since been photographed and bred in captivity. John would like to relate some of those experiences in these far away places, discuss some of the problems relating to collecting fish in remote areas, indicate perhaps what he sees as environmental concerns for the fish fauna of these regions and encourage others to go and sensitively explore and enjoy our wonderful country.

About John Coates:

Bachelor of Agricultural Science (Hons), Diploma in Education

Teacher, subject Areas: Mathematics, Science and Chemistry to Year 12

Interests are fish keeping, fishing, sport, travel and being a member of ANGFA.

In 1989 John (and his partner) Leanne decided that this was the year to see Australia and at the same time give themselves a well-earned break from teaching so as to recharge their batteries. With that goal in mind, they applied and were granted leave without pay from their jobs, packed their belongings into storage, rented the house and set off on a 40,000 km trip clockwise around Australia for the next 11 months. It turned out to be the best year of their lives.

AQUASONIC PTY. LTD.

Manufacturers of quality aquarium products

Test Kits, Medications, Filtration Mediums, Synthetic Sea Salts, Water Conditioners.

Directors:- Richard and Sue Carson.



Office-
84 Hansens Road,
Minto, 2566 Australia
Phone:(02) 603 1183
Fax:(02) 603 2976

Factory-
11A Ingleburn Industrial Village,
Louise Ave,
Ingleburn 2565
Phone:(02) 605 2746



Bruce Hansen
ANGFA (S.E. Qld.)

Topic of Lecture:

COLLECTING TRIP TO CAPE YORK

Slide-talk. An overview of a collecting trip to Cape York he made with his family in 1987. Bruce drove his 4WD over 6 000 km. from his home outside Brisbane up to "the tip" and back and surveyed a variety of aquatic habitats up there.

About Bruce Hansen:

Bruce is 50 and tries (not always successfully) to balance his time between his busy medical practice and his three teenage children. His interest in native freshwater fish provides him with challenges and recreation in a totally different field.

From boyhood he has always enjoyed "poking around" in creeks and rock-pools. He joined ANGFA as a foundation member in 1983 and the South East Queensland Regional Group in 1984 and has maintained close ties ever since.

Habitat surveys with the South East Queensland Regional Group were the stimulus to trips further afield. He enjoys sharing his experiences and thoughts with other enthusiasts either personally or through the pages of "Fishes of Sahul" and it's sister publications.

Noel Harcourt

Royal Melbourne Zoo
Keeper in Charge of Education Species.

Topic of Lecture:

THE MELBOURNE ZOO: PAST, PRESENT AND FUTURE.

Including the implementation of Aquariums representing Australian native species within the structure.

About Noel Harcourt:

8 years experience at Melbourne Zoo and prior to this worked in wildlife parks.

President of the Australasian Society of Zoo Keepers in 1989, 1990.

Interests include South American and Australian species of fish and reptiles. Enclosure construction and design.



Specialist in Aquacultural Science,
Aquatic Art and Design

131-135 Thomas Street, Dandenong, Victoria 3175. Ph: 794 5144 Fax: 793 1138



PISCES ENTERPRISES

PO BOX 200
KENMORE Q 4069
AUSTRALIA

PH: (07) 374 1839

FAX: (07) 374 2393

GILLIAN & ED FRAZER

AQUARIUM PLANTS • GOLD & TROPICAL FISH

WATERLILIES • NEW RELEASE FOLIAGE PLANTS

RETRAVISION LTD

BUCHANAN & HEWITT

LEN HUTCHISON

649 HIGH STREET PRESTON 3072
TELEPHONE: 478 3511

PROUD TO BE A SPONSOR



**Pet & Aquarium
Industries Pty. Ltd.**

(INCORPORATED IN VICTORIA)

Previously Trading as Aquarium Industries Australia P/L

Registered Office & Wholesale Sales:

68 CHIFLEY DRIVE, PRESTON, VICTORIA 3072 AUSTRALIA

PO BOX 8134 NORTHLAND PRESTON 3072

TELEPHONES: 480 3022 8 LINES

FAX: 61 3 480 0025

WHOLESALE ONLY

SUPPLIERS TO REGISTERED AQUARIUM
AND AQUACULTURE BUSINESSES GOVERNMENT
DEPARTMENTS AND SCIENTIFIC LABORATORIES

Importers of Aquarium Fish, Manufacturers, Importers
and wholesalers of Aquarium and Pet Accessories.



Effie Howe
Fish Researcher

Topic of Lecture:

ENVIRONMENTAL FACTORS INFLUENCING THE DISTRIBUTION AND ABUNDANCE OF SOME AUSTRALIAN FRESHWATER FISH.

Research on freshwater fish in Australia originally concentrated on commercially important exotic species and only recently on commercially important native freshwater fish. Very little attention has been given to smaller native fish from a management aspect. The smaller species of fish are of great importance from both a conservation point of view and as food for larger organisms. Before management studies can be performed on these small native fish it is necessary to know their basic biology (reproductive behavior & embryology).

Effie will talk about some of her previous work on breeding and embryology of *Pseudomugil* species and the seasonal reproductive activity of *P. signifer* in the field. Her newer field of interest is concerned with the effect that humans are having on these native fish. She has selected two areas of concern.

1. Pollution by heavy metals. (CHEMICAL INTERFERENCE).
2. The introduction of exotic species. (BIOLOGICAL INTERFERENCE).

Effie will talk about the methodology that she intends using to determine sub lethal effects of one or more heavy metals on the eggs and larvae of some native species. The intention of this work is to use the fish eggs as a bio-indicator of pollution.

The methodology of a competition experiment between *P. signifer* and *Gambusia holbrooki* will also be discussed.

About Effie Howe:

Employed at CSIRO Division of Food Processing at North Ryde NSW working on environmental sensors. Enrolled as a part-time PhD student at the University of Technology, Sydney.

Dr. Walter Ivantsoff

Senior Lecturer in Biology
Macquarie University, New South Wales 2109

Topic of Lecture:

SAILFIN SILVERSIDES

Sailfin silversides (family Telmatherinidae) have been known to aquarists for many years. Most specimens have been invariably identified as the Celebes Rainbow or the Ladiges Rainbow although most people know that there are more than two species in that group. Recently, Dr. Maurice Kottelat has described six new species of sailfins and it appears that there are many more awaiting description. Dr. Ivantsoff's talk will be about the sailfin silversides, their habitat and the sort of work Dr. Kottelat and Dr. Ivantsoff are planning to do together in Sulawesi next year.

About Dr Walter Ivantsoff:

B.Sc. from the University of Sydney and a Ph.D. from Macquarie University. He has taught at Macquarie University, first as a part time tutor in 1967 and as a full time member of staff about a year later. His present designation is a senior lecturer. He has published about thirty papers on blue-eyes, hardyheads and rainbowfishes having collected the various species from as far away as Mexico and the Mediterranean and has collected right around Australia and Tasmania. One of his most recent projects was working on the identification of one of Australia's latest and rarest discoveries, the redfinned blue-eye. Much of his time is devoted to teaching university students and the course he likes to teach every year is called the Biology of Fishes.

RC E **RAY CROSS**
ELECTRONICS
A Member of the Leeville Group of companies.

**TV, VCR, COMPUTERS
SALES AND SERVICE**

151 BORONIA ROAD,
BORONIA, VIC, 3155

Tel: 762 2422
Fax: 762 5170

Rob Corner



RAYONNE AQUARIUM

**MELBOURNES LARGEST RANGE OF
TROPICAL AND COLD WATER FISH**

712 PLENTY ROAD
RESERVOIR 3073

Phone: 478 6614



Bryan E. Pierce

Senior Inland Fisheries Scientist

Research Branch, South Australian Department of Fisheries

Topic of Lecture:

THE CURRENT STATUS OF THE VARIOUS
INLAND WATERS FISHERIES IN S.A.

Including a view to future directions.

About Bryan E. Pierce:

Born 1955. Married with one child.

Bryan has studied at the University of Adelaide (Ph.D. Candidate - suspended), Colorado State University (M.S. in fisheries 1981-1983), University of Washington (B.S. in fisheries 1978-1980) and at Peninsula College (A.A. 1973-1976).

He has been awarded the Commonwealth Postgraduate Scholarship (1984-1988), B.S. magna cum laude (1980), Faculty Merit Award (1980), Floyd E. Ellis Memorial Scholarship (1980), Egtvedt Trust Scholarship (1979), Yearly Honours (1978-1979), Rotary Scholarship (Port Angeles Chapter 1973) reawarded (1974), Honours at Graduation, Port Angeles High School, National Merit Scholarship Letter of Commendation.

He has worked as a Senior Inland Fisheries Scientist S.A. Dept. of Fisheries; Private fisheries consultant (1982-1990. (eg. Lake Argyle, W.A. catfish fishery aquaculture and management; S.A. Pygmy perch rehabilitation project; several U.S. Environmental Impact Statements); Lecturer: Roseworthy Agricultural College (Biostatistics; 1988), Part-time instructor: Sturt Campus, S.A. College of Advanced Education 1987); Demonstrator: Dept. of Zoology; University of Adelaide: Research Methods (Sampling design and statistics; 1986-1988), Freshwater Ecology (1985-1987), Marine Ecology (1986-1988); Voluntary aid: Zinc Metallothionein Research (1978-1980); Heavy metal toxicity in rainbow trout); Personal investigation: Fecundity and growth of the tidepool sculpin (*O. maculosus* 1979-1981); Commercial fisherman (troll fishery 1976).

Additional work experience outside of his field includes qualified V.W. mechanic, brickie's labourer, computer and word processor operator; BASIC programmer; FORTRAN programmer; Scanning Electron Microscope (SEM) operator; Certified SCUBA diver; Electro-fisher operator; Radio telemetry equipment operator; Hormone spawning induction expertise (including carp, goldfish, river blackfish); Written German translator; Licensed boat operator (S.A.); Licensed firearms user (S.A.) and is also a regular public speaker.

Bryan has also published numerous books and papers as author and co-author on many and varied subjects.

REEF AQUARIUMS

P.T.Y. L.T.D.

Specialising in:
EXPORTING OF AUSTRALIAN LIVE FISH
IMPORTERS, WHOLESALE & RETAIL

322 Pacific Highway, Hornsby
NSW 2077 Australia
Phone: (02) 476 5675
Fax: (02) 476 1001

Anthony Shelley
MANAGING DIRECTOR

ALEXANDRA TRADERS PTY LTD

THRIFTY - LINK HARDWARE

Plumbing and Hardware Supplies
L.P.G. Gas Supplies and Electrical Appliances



David J. Welch
Roger D. Welch
Deanne Welch



100 GRANT ST.,
ALEXANDRA, 3714

(057) 72 1126 - B.H.
72 2056 - A.H.
72 1806 - A.H.

FOR THE FINEST IN

- MARINE FISH - TROPICALS - FANCY GOLDFISH -



OPEN
10.30-6pm

7 DAYS A WEEK
497 3336

1030 HEIDELBERG RD IVANHOE 3079

AQUARIUM FISH FARMS OF AUSTRALIA

PHONE OR FAX (071) 59 3299

LARGE SCALE
BREEDING OF NATIVE FISH

AQUARIUM LIVESTOCK GENERAL PRODUCTS WHOLESALE

DISTRIBUTOR OF AUSTRALIAN
NATIVE FISH



Heinze Staude

All Aquarium & Pet Supplies P/L.
8 Dunoon Court, Mulgrave 3170

Topic of Lecture:

THE EARLY DAYS OF NATIVE FISHKEEPING IN AUSTRALIA.

(Slide talk). Starting from the early seventies including the first collecting trip to Queensland in 1973.

About Heinze Staude:

Married with two sons. Proprietor of the above company. Heinz has been in business for 22 years specializing in the rare and unusual aquarium fishes including natives. Has been actively keeping fish for over 40 years and has bred more than 300 species of aquarium fishes.



ALL AQUARIUM & PET SUPPLIES PTY. LTD.

A.C.N.: 005 746 547

(H. & R. Staude)

Specialising in CICHLIDS and other Rare Species

8 DUNOON COURT, MULGRAVE, VIC., AUSTRALIA, 3170.

Phone: (03) 546 1025



HARVEY WORLD TRAVEL

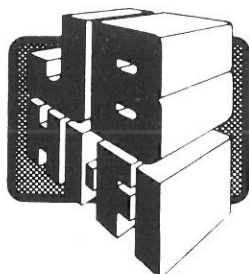
TELEPHONE: (03) 375 2677
FAX: (03) 370 4754

Michael Leahy

Proprietor/Manager

HARVEY WORLD TRAVEL (ESSENDON)

942A Mt. Alexander Road
Essendon, Victoria 3040, Australia



C.D'S
TAPES
HI FI'S
VIDEOS

758 BURKE ROAD CAMBERWELL

TELEPHONE: 882 1372

TEL.: 337 3429



AQUARIUM PTY. LTD.

FOR ALL YOUR AQUARIUM SUPPLIES.

293 BUCKLEY STREET
ESSENDON, 3040.

PROPRIETOR
ERICH GOELZ



RENA

Air Pumps
Power Filters
Ultra Violet Sterilizers
Water Pumps
Aquarium Heaters
Automatic Timer/Feeders
Modular Sub Sand Filters
Room Vaporizers
Indoor/Outdoor Decorative
Fountains
Full Range Spare Parts
Expert Service Division

*Rena's eye for detail ensures quality
in a full range of aquarium equipment
and accessories*

Phone Rena House for a complete
catalogue of models and
specifications (03) 528 2611



Peter Unmack
ANGFA member

Topic of Lecture:

ARTESIAN SPRINGS OF WESTERN
QUEENSLAND.

Their fishes and long term survival projections.

About Peter Unmack:

Born in Melbourne twenty years ago. Peter became interested in fish in 1981 when he was presented with his first aquarium.

He first became interested in native species through the larger angling varieties, an interest he still maintains as committee member of Native Fish Australia.

During the mid eighties Peter began travelling with his parents to the outback, collecting species from many localities in the arid centre of Australia. He often visited Western Queensland and it was there in November 1990 that he discovered the red finned blue-eye — his most significant contribution to date.

Peter regularly contributes specimens from his collecting trips to various museums, in particular the Museum of Victoria.

BLACKBURN AQUARIUM

John & Lynne Mitchell

294 Middleborough Road,
Blackburn South, Vic. 3130

Hrs: 10 - 6 Wed - Mon
(Closed Tuesday)

Tel: 898 6222

EILDON CARAVAN PARK

Peter & Jill Corish
EILDON RD
EILDON
(057) 74 2105



aristopet pty ltd
MANUFACTURERS OF SPECIALIST PET PRODUCTS

LEN WALKER
MANAGER

110 LAVARACK AVENUE,
EAGLE FARM, Q. 4007

TELEPHONE: (07) 268 6155
FAX: (07) 868 1133



AQAGENTA

53 GAREMA CIRCUIT, KINGSGROVE, 2208.
PHONE: (02) 758 2222, FAX: (02) 758 2099.



Rob Wager
Fisheries Biologist
Queensland DPI Fisheries Branch.

Topic of Lecture:

GRASS ROOTS TECHNOLOGY FOR SPAWNING COAL GRUNTER

A slide show outlining a recent experience inducing coalies to spawn. A garden shed and 20 year old steel framed aquarium were the keys to his success.

About Rob Wager:

Received B.Sc at University of Qld 1986.

Worked as research assistant, private consultant, Fisheries technician on projects ranging from Limnological surveys, fish stocking, aquaculture of Yellowbelly, Silver Perch, Australian Bass, Barramundi and Murry River Cod.

Currently working on an A.N.P.W.S. endangered species unit project, compiling freshwater fish action plan for threatened fish species.

Rob has been involved with fishkeeping for at least 20 years and holds a special interest in Australian freshwater fishes dating back to about 1980.

Australia's Leading Distributor to the Pet Industry

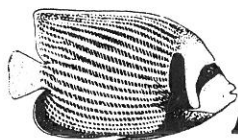
PET PACIFIC PTY LTD
(formerly Aquarium Products Pty Ltd)

Unit C/30-32 Skarratt St. Nth.
Silverwater NSW 2141

Sole Australian Agent for
Rolf C Hagen Inc. Canada and
many of the world's first pet
supply manufacturers

FRANK H. WILLIAMS
Managing Director

TELEPHONE: (02) 748 3730 FAX: (02) 748 3720



A to Z
AQUARIUMS

PH: 792 3250

SPECIALIZING IN-

•MARINES • TROPICAL • CICHLIDS • GOLDFISH•
AND AQUARIUM ACCESSORIES

CNR. THOMAS & SCOTT ST.,
DANDENONG 3175

OPEN 7 DAYS
A WEEK

SOUVENIR AUTOGRAPHS

The National Committee of ANGFA hopes you enjoy the 1991 National Convention and that we may rendezvous again at the next convened time and place.



RENA

AN EYE FOR DETAIL