



AUSTRALIA NEW GUINEA FISHES ASSOCIATION
INCORPORATED

1999

**NATIONAL CONVENTION
OCTOBER 22-24
CANBERRA AUSTRALIA**



INDEX OF CONVENTION SPEAKERS

Glynn Aland	4	Aaron Jenkins	7
Dr. Gerald Allen.	4	Jean Joss	8
Neil Armstrong	5	Dr. John Merrick	8
Louise Backhouse	5	Barry Meiklejohn	9
Glenn Briggs	6	Dr Brian Pratt	10
John Cann	6	Bruce Sambell	10
Barry Crockford.	7	Shane Willis	11

CONVENTION PROGRAMME

FRIDAY EVENING:

8.00 ANGFA Annual General Meeting.

SATURDAY 23rd OCTOBER:

Morning Program

Session Chairman: Bruce Hansen (ANGFA Qld.).

8.00-9.00 **Registration & Coffee.**

9.00-9.30 **Convention Opening.**

9.30-10.30 **Dr Gerald Allen -
"1999 Expedition to Misool Island and
the nearby Raja Ampat Islands, Irian
Jaya".**

10.30-11.15 Morning Tea

Session Chairman: Derek Girkin (ANGFA N.S.W.).

11.15-12.00 **John Cann -
"Australian Freshwater Turtles".**

12.00-12.45 **Jean Joss -
"An insight into the Lungfish Research
Facility at Macquarie University".**

12.45-2.15 Lunch.

Afternoon Program

Session Chairman: Scott Hunt (ANGFA A.C.T.).

2.15-2.45 **John Merrick -
"The Humble Crayfish - Why is it so
important?".**

2.45-3.15 **Louise Backhouse -
"Government and the Community
working together to improve fish
habitat in the A.C.T.".**

3.15-3.45 **Barry Meiklejohn -
"Keeping Natives Outdoors".**

3.45-4.30 Afternoon Tea.

Session Chairman: Andy Wattam (ANGFA A.C.T.).

4.30-5.15 **Bruce Sambell -
"A Year as a Fish Farmer".**

SATURDAY EVENING:

6.00 **Pre-Dinner Drinks.**

6.30-8.00 **Convention Dinner.**

8.00 **Auction.**

SUNDAY 24th OCTOBER:

Morning Program

Session Chairman: Bruce Hansen (ANGFA Qld.).

8.30-9.00 **Coffee.**

9.00-9.30 **Barry Crockford -
"Lake Wanam & Lake Kutubu
Report".**

9.30-10.30 **Dr Gerald Allen -
"1998 Kimberley Expedition and
Field Guide to the Freshwater Fishes
of Australia - A Progress Report".**

10.30-11.15 Morning Tea

Session Chairman: Andrew Boyd (ANGFA A.C.T.).

11.15-12.00 **Glynn Aland -
"Atherton Tablelands: Fish from My
Backyard".**

12.00-12.30 **Shane Willis -
"Indoor Commercial Production of
Rainbows and Other Native Fish".**

12.30-2.00 Lunch.

Afternoon Program:

Session Chairman: Ken Smales (ANGFA Vic.).

2.00-2.45 **Neil Armstrong -
"Small Fishes of Sahul".**

2.45-3.15 **Glenn Briggs -
"Victorian Fishes for the Home
Aquarium".**

3.15-4.00 Afternoon Tea.

Session Chairman: Andy Wattam (ANGFA A.C.T.).

4.00-4.30 **Dr Bryan Pratt -
"Fishes in the Canberra Region".**

4.30-5.00 **Aaron Jenkins -
"The endemic fishes of Lake Kutubu
with particular reference to gudgeons
of the genus *Mogurnda* : a mini
species flock".**

SUNDAY EVENING:

5.30 **Pre-Dinner Drinks.**

6.30-8.30 **Wind-Down Dinner.**

8.30- **Heiko Bleher -
"To Be Confirmed".**



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CONVENTION ORGANISERS

The 1999 ANGFA National Convention has been organised by Andy Wattam, Scott Hunt, Hans de Vries and Jennifer Palmer.

ANGFA ACT is actively working on a Natural Heritage Trust project to promote the native fish of the ACT. The two major components of this project are; a poster presenting information on all the freshwater fishes within the ACT; display equipment to promote natives within the ACT community.

Without the support of ANGFA Victoria and in particular, Ron Bowman, Mark Chettle, Rudi Kuitert, Ken Smales and Neil Armstrong, on the NHT project, the organisation of this convention would have been an almost impossible task.

This publication has been produced by Ken Smales and Mark Chettle in conjunction with ANGFA ACT.

WELCOME!!

Please use this weekend to exchange information and make new friends and contacts. Use the pages at the back of this Souvenir Booklet to record their names and addresses.

Take notes, ask questions. This is a unique opportunity to increase your knowledge of our aquatic environment.

Please join in and enjoy yourself

**SPECIAL NOTICE:
ALL MEMBERS AND VISITORS TO
THE CONVENTION ARE
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OFF WHILST INSIDE THE
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GLYNN ALAND

About Glynn Aland:

Glynn lives on the family farm on the Clohesy River (Barron River Catchment) west of Cairns. He can usually be seen surveying fish in FNQ streams at odd times with the Southerly ANGFA members up on holidays. He has been a member of ANGFA QLD since 1992, fisheries technician for QDPI for the last 20 months on the Mitchell River Environmental and Water Quality Project and has completed a Bachelor of Applied Science in Natural Systems and Wildlife Management in 1995. He is also an aquatic plant enthusiast and poultry fancier.

Glynn's Presentation:

"Atherton Tablelands: Fish from My Backyard"

Many of you will regard the Atherton Tablelands area as the "Mecca" for native aquarium fish. Atherton is close to Cairns, bitumen roads access most "hot spots" and the climate is milder than the steamy coastal strip. Four major drainage systems originate on the Atherton Tablelands, of which the Mitchell River is the 2nd largest river system in Australia (in terms of annual discharge). These systems represent the diversity of both Eastcoast and Gulf of Carpentaria fauna. This is a unique area and one in which I am proud to call home. Please enjoy a snapshot of some of the aquatic life from this area.



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Dr. GERALD R. ALLEN

About Gerry Allen:

Gerry Allen was born in Los Angeles, California in 1942. He received a B.Sc. and Ph.D. in Marine Zoology from the University of Hawaii in 1971. A year later he emigrated to Australia with his wife Connie and son Tony. He served as the Curator of Fishes at the Western Australian Museum in Perth for 24 years, having recently retired to take a position with Conservation International as their Science Team leader for marine surveys. Although he was trained as a coral fish specialist and remains active in the field, Dr. Allen has been passionately involved with the study of freshwater fishes of Australia and New Guinea for the last 25 years. He lists New Guinea as his favourite travel destination for both freshwater and marine work. Although interested in all faunal groups, rainbows, blue-eyes, and gobioid fishes occupy most of his freshwater research. Dr. Allen is the author of 27 books and has published more than 300 scientific articles on coral reef and freshwater fishes. He has scientifically described over 40 species of rainbowfish and blue-eyes. ANGFA was honoured in the early 90's when Dr. Allen decided to name the Yakati rainbow *Melanotaenia angfa*.

Presentation 1 (Saturday):

"1999 Expedition to Misool Island and the nearby Raja Ampat Islands, Irian Jaya"

In 1994 Dr. Allen received a 3-year grant from the American National Geographic Society for a survey of Irian Jaya's freshwater fishes. This slide presentation presents highlights of the field work that was finally completed earlier this year. Special emphasis is placed on the most recent visit to Misool, Batanta, and Waigeo, which although not as scientifically rewarding as previous surveys was packed with adventure. The high point of the expedition was the rediscovery of the Misool rainbowfish, which appears to be confined to only two small river systems. This species is unknown to the aquarium hobby, although a fish previously collected on Batanta Island was mistakenly identified as this species.

Presentation 2 (Sunday):

"1998 Kimberley Expedition and Field Guide to the Freshwater Fishes of Australia - A progress report"

Dr. Allen and his son Mark travelled to WA's remote Kimberley region during July 1998. The primary mission was to photograph as many of the region's freshwater fishes as possible and to make collections of live specimens for a new display centre at the Western Australian Museum. Highlights of the trip included the collection of several rare Kimberley endemics including Greenway's, Kimberley, and Drysdale grunners, and the Barnett River and Mitchell Gudgeons. The presentation will include colour slides of these species and many more, which will be featured in a new book on Australian freshwater fishes.



NEIL ARMSTRONG

About Neil Armstrong:

One of the 'characters' of ANGFA, nicknamed *The Silver Budgie* by his friends, Neil has been an active member since the foundation of the association. He ranks as one of the leading photographers of fish, and his photographs grace many of the magazine articles published about fish in this country and overseas.

Based in Melbourne, Neil has travelled to many parts of this country collecting fish, and his eye for detail and great knowledge of the habits, habitats, and breeding of Australia's native fish is called upon regularly by all involved in the study and keeping of our fishes.

In 1997, Neil travelled to the United States where he presented some of his slides at Rainbows '97 - RSG's conference in San Francisco.

This year Neil was invited to speak at the I.R.G. convention held in Bensheim Germany on the weekend of June 12th-13th. He gave 2 talks, the first on Saturday consisted of the fish and their habitats in the many parts of Australia that he has travelled. The second talk on Sunday mainly covered the many Fishes of Sahul. In Neil's own words, it was a '*Bloody good convention*'.

By the time that this convention has started, Neil should have been to the Arafura Swamp in Northern Arnhemland with other ANGFA members. The Goyder River drains into the Arafura Swamp, so it could be a goldmine of native fish.

Neil's Presentation:

"Small Fishes of Sahul"

Though some of Sahul's fishes may grow to 3' or more, the most commonly kept are about 6" long. However, there are many that only reach a length of 2" or less. These are the fish that Neil will be talking about with the help of slides.

LOUISE BACKHOUSE

About Louise Backhouse:

Louise Backhouse has been employed with Environment ACT since 1995, and has been ACT Fisheries Action Program Coordinator since 1997. This has entailed engendering interest in the fishing community and encouraging and developing projects to be funded by the Natural Heritage Trust. She is now the Waterwatch Facilitator for the ACT, working with school and community groups. Prior to working with Environment ACT, Louise was a water quality project officer for six years with Sydney Water. She managed long and short term monitoring projects for various clients including the sewage treatment plants. She was extensively involved in the monitoring of the deep ocean outfalls and the cliff face sewage outfalls prior to and following commissioning.

Louise's presentation:

"Government and the Community working together to improve fish habitat in the ACT"

The Fisheries Action Program is funded under the Natural Heritage Trust (from the sale of Telstra). The main objective being addressed in the ACT is to increase awareness of the problems affecting fisheries and their habitat and to facilitate community participation in fish habitat restoration and protection.

Several sections of the Murrumbidgee River have been severely impacted by habitat degradation, mainly the accumulation of sediments (sand). There is little habitat diversity remaining as the river has changed from a narrow, self-scouring channel to a wide depositional system. Sand has filled the majority of holes with a consequent loss of the pool/riffle sequence. Sediment addition is a major threatening process for fish, particularly species which lay adhesive eggs on the substrate. In such situations, sediment can either smother the spawning beds rendering them unsuitable, or smother the eggs themselves. The reduction in depth and occurrence of pools has also removed potential refuges for fish from summer water temperatures. Increased sediment loads have probably also affected benthic invertebrate communities, the primary food source of native fish species.

This river reach still contains populations of two threatened species (Macquarie Perch, Murray Crayfish), with Trout Cod present until the mid 1970's. The river upstream has recently been restocked with Trout Cod as part of a national recovery program.

The objectives of the river rehabilitation projects are to restore the natural pool/riffle sequence in the Murrumbidgee River in the ACT and to provide enhanced habitat for fish and invertebrate species through the provision of structural diversity in the form of snags. The projects provide a catalyst to develop a partnership between community and government organisations in the ACT.

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GLENN BRIGGS

About Glenn Briggs:

Glenn is a Purchasing Officer for Aquarium Industries, Australia's largest aquarium fish wholesaler.

Glenn has been keeping fish for 25 of his 39 years, and is interested in most of the major fish groups. His main interest is in native species, particularly Pygmy Perches and Mogurnda. He believes that just keeping rainbowfish would be too boring.

Glenn's Presentation:

"Victorian fishes for the home aquarium"

Mention native aquarium fish to a fish keeper and they will probably respond by naming several rainbows or perhaps Blue-eyes from Northern Australia. The popularity of these fishes is well founded, but it is worth noting that temperate species from Southern Australia also have much to offer as aquarium residents.

Glenn will explain which fish species from Victoria are suitable for aquaria and will outline their general requirements.

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JOHN CANN

About John Cann:

John was born in Sydney in 1938. He was introduced to reptiles at an early age by his father George Cann, a reptile showman who later became curator of reptiles at Sydney's Taronga Park Zoo.

As a boy he excelled at athletics, at eighteen, represented Australia in the 1956 Olympic Games and later played rugby league for New South Wales. He was a keen diver and never lost an opportunity to explore and dive the river country of eastern Australia. His interest and fascination with freshwater turtles has spanned forty years.

John has discovered a number of new turtle species, two of these belong to monotypic genera. John has had numerous papers on freshwater turtles published and has produced four books on reptiles.

In 1992 John was awarded the medal of the Order of Australia (O.A.M.) for Conservation, Environment and Community, he is an honorary consultant in freshwater turtles for the Queensland Museum and a member and advisor of the Tortoise and Turtle Specialist Group of the I.U.C.N. Species Survival Commission.

John's Presentation:

"Australian Freshwater Turtles"

Australia is home to some of the most interesting and unusual freshwater turtles in the world. This includes the Fitzroy Turtle which breathes through its bottom by means of an elaborate series of cloacal gills, the Northern long-necked turtle which lays its eggs underwater, the distinctive pig-nosed turtle whose sex is determined by temperature of incubation, and the Western Swamp turtle, the rarest turtle in the world.

In this presentation, John discusses in detail with spectacular slides, the biology of these fascinating creatures: where they live, what they look like and how to tell them apart, what they eat, and how they strive to survive. John conveys his dedication and enthusiasm for these creatures in a style which draws the audience, whether professional or amateur naturalist, into the colourful and diverse world of Australian Freshwater Turtles.

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BARRY CROCKFORD

About Barry Crockford:

At the age of 12 Barry received his first fish tank as a birthday gift from his mother.

He built his first fishroom at 17 years of age with the help of his father and kept exotic species for the first time. It was also at this time his interest in aquatic plants developed and he was always on the lookout for a new *Cryptocoryne* or *Echinodorus* species.

In 1955 he joined the R.A.A.F. and with the help of his parents still managed to keep his fishroom going.

In 1960 his work took him to Papua New Guinea and Netherlands New Guinea. Oddly he never kept fish during his 6 years there. His main interests were collecting butterflies and orchids. In 1967 he returned to Australia and New Zealand. When time permitted he still pursued his aquatic interests.

From 1972 to 1999 Barry has returned to Papua New Guinea many times on collecting trips and was responsible for introducing into Australia many of the species we keep today. In 1979 Barry discovered *Glossolepis maculosus* near Lae.

Barry retired in 1998 and still maintains a small collection of New Guinea rainbows in Melbourne.

Barry's Presentation:

"Lake Wanam and Lake Kutubu Report"

Barry's presentation will include a report on his recent trip to New Guinea to investigate the reported demise of the Lake Wanam rainbowfish. This survey was carried out by both ANGFA and the Royal Melbourne Zoo and the lessons learned from this survey could well have to be applied to what Barry considers could be another potential hotspot - Lake Kutubu. This lake contains 13 species of fish - 11 endemic - oil drilling rigs and mining equipment have been recently introduced to the area plus a village on the lake has increased from 400 to 4000. Barry will back up his presentation with some excellent photography of the recent survey.

AARON JENKINS

About Aaron Jenkins:

Aaron Jenkins lived with his family for 18 years in Papua New Guinea. He attended Cornell University in upstate New York where he received a Bachelors of Science, majoring in evolutionary biology and ecology. After receiving a Masters degree in marine biology from Woods Hole Oceanographic Institute, Aaron left on a fellowship for two and a half years at the Christensen Research Institute in Madang, PNG. In addition to setting up coral reef monitoring stations and collecting baseline data on reef fishes and benthic cover, he conducted several freshwater ichthyofaunal surveys in PNG. Aaron currently works for Wetlands International - Oceania (based in Canberra) and makes several trips a year to PNG to conduct aquatic biodiversity surveys with an emphasis on fishes. Aaron has published several papers with Dr. Gerald Allen describing new species of gudgeons from the genus *Mogurnda*.

Aaron's Presentation:

"The endemic fishes of Lake Kutubu with particular reference to gudgeons of the genus *Mogurnda* : a mini species flock"

Aaron will speak on the endemic fish fauna of Lake Kutubu with particular reference to the gudgeons of the genus *Mogurnda*. As part of several consultancies for World Wildlife Fund, Aaron was able to take the first underwater video footage of the unique fishes of Lake Kutubu in their natural habitat, including two new species of gudgeon. Some of this footage will be shown for the first time during the talk in conjunction with slides. The youth of Lake Kutubu suggests an amazing rate of speciation for *Mogurnda*'s within the lake which could be considered a small-scale example of the species flock phenomena seen in the the rift lake cichlids of Africa.

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JEAN JOSS

About Jean Joss:

Professor Jean Joss has been at Macquarie University for 28 years. Her main interest is in Vertebrate Evolution. She has worked on several major groups, including lampreys, dogfish, primitive ray-finned fish (sturgeon, gar, etc.), amphibians, lizards, crocodilians, emus and marsupials. For the last 15 years she has primarily been studying lungfish. In 1992, she established a Lungfish Research Facility at Macquarie University, which includes two large ponds where lungfish breed to provide the lungfish for research. This facility is visited regularly by both national and international researchers interested in many aspects of vertebrate evolution – phylogeny, development, endocrinology, etc.

Jean's Presentation:

"An insight into the Lungfish Research Facility at Macquarie University"

The facility will be described and illustrated. The significance of lungfish in the transition from water to land will be discussed and several of the research projects currently underway briefly introduced.

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Dr. JOHN MERRICK

About John Merrick:

Dr. John Merrick has worked for many years in the School of Biological Sciences at the University of Sydney and Graduate School of the Environment at Macquarie University. His Ph.D. was for studies on the Australian freshwater perches (grunters) in the Family Terapontidae. Research programmes since 1970 have involved extensive field work throughout northern and eastern Australia.

Over 55 publications have included 6 books, general articles and scientific papers on aquaculture and fisheries management, reproduction and taxonomy of a range of Australian native fishes as well as conservation of endemic crayfishes. The best known books would be the 'big blue book' and *Australian Native Fishes for Aquariums* (orange book) written with Ray Leggett.

John's Presentation:

"The humble crayfish – why is it so important?"

The diversity of the Australian crayfish fauna will be briefly explained together with the latest findings on their relationships and distributions. The general life cycle and diet will be illustrated.

With emphasis on the largest genus of spiny crays (genus *Euastacus*) the ecological importance of crayfish populations, in small to medium-sized highland streams, will be discussed. Major threats to the conservation of *Euastacus* are identified and the current regulations or management measures assessed. Conservation initiatives involving captive breeding and the potential of these *Euastacus* to act as key species, indicating the health of a waterway, are briefly outlined.





BARRY MEIKLEJOHN

About Barry Meiklejohn:

The early aquaristic "seeds" were sown in childhood in the form of an 18 inch tank which acted as an execution chamber for a continuous procession of guppies, gouramis, glowlights and goldfish. When posted to Mount Isa many years later the "aquarist" seed re-germinated and a four-foot tank appeared in the living room, much to the chagrin of his wife, Karen. Barry proved that he still had "IT" – his childhood triumphs were repeated, cichlids became "sick-lids", neons stopped glowing and goldfish were buried for future prospectors to find. Word spread fast throughout the Isa and the fish in the aquarium shop would hide at the back of the tank when he arrived, thinking he was "old-man Death with cape and sickle".

Barry's move into native fish, which could be collected in his spare time when he wasn't feasting at Maria's Pizza Palace, came as a kind of economic necessity. Fish were plentiful in the local streams and proved more resilient than the ill-fated exotics purchased at much expense from the local establishments. The hot summers of the Queensland north-west allowed plenty of time for research into fish-keeping and provided for the application of some basic knowledge like water changes. Barry soon "convinced" Karen of the benefits of live food by trying to establish some worm cultures in the kitchen. After a little haggling the worms were out and Karen had found a new night-time pursuit, catching moths and insects to feed to the various archerfish, banded grunners and sleepy-cod. Barry's research had shown him that not all rainbownfish were born equal and that there was some brightly coloured species which were in stark contrast to the dusky pink and yellow tateis that were abundant in the streams around Isa.

Moving back to Brisbane in 1991, Barry visited a Pet and Hobby Expo and walked past a tank that contained some familiar looking fish, only these fish were bright blue (*Melanotaenia lacustris*) and others were vibrant yellow (*Melanotaenia parkinsonii*), whilst others were bright red (*Glossolepis incisus*). The show steward told him about this group of people who were mad keen on native fish. So Barry was introduced to ANGFA and he became the editor of the ANGFA (Qld) Newsletter. He has continuously been on the regional association's committee ever since and has served as Auctioneer, Vice-President and President.

Not content with this involvement he is also on the ANGFA 'National' committee and has been Membership Officer as well as assistant to our Bulletin Editor, Adrian Tappin. He has held the position of Treasurer with the Queensland Federation of Aquarium Societies, and served as Vice President of that organisation. He was also Coordinator of the last two Pet and Hobby Expos held in Brisbane which were organised by the Federation during the mid 90's.

At conferences his expertise with the technology that

makes all the difference to quality is legendary and although he is usually behind the scenes and misses out on the "glamour" his contribution is enormous. Even at general meetings, for example when assisting as auctioneer, his sense of fun will often surface and few who saw his impersonation of Mick Jagger one night will ever forget it. Having experienced so much camaraderie and assistance, Barry is hoping for many more years of pleasurable experiences through his involvement with this unique and diverse association that we know as ANGFA.

Barry's Presentation:

"Keeping Natives Outdoors"

Maintaining an ongoing population of fish can become problematic and time consuming. To do it properly requires knowledge of water chemistry, animal husbandry, plumbing and electrical systems etc. Are there other methods of raising fish successfully? How do you achieve high yields, maximum growth rates with minimal maintenance? How can you combine your hobby of fish keeping with maintaining attractive landscaping on a small house block, whilst preserving your marriage and your sanity? All these questions and more will be addressed by Barry in his talk on "Keeping Natives Outdoors".



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Dr. BRIAN PRATT

About Brian Pratt:

DOB: 1 June 1937. Academic Qualifications: B.Sc. Agr. Sydney University 1960, majoring in Entomology and Plant Pathology. B.Ag.Sc. (Hons) University of Adelaide 1961, Plant Pathology. Ph.D. University of Adelaide 1965, Plant Pathology.

1965: Employed Commonwealth Department of Health, Plant Quarantine Section, Canberra, ACT.

1967-1974: Teaching and Research, Department of Forestry, Australian National University, Canberra, ACT. Forest Pathology.

1974: Bureau of Environmental Studies, Commonwealth Department of Environment, Canberra, ACT. Environmental Investigations.

1974-1988: Commonwealth Department of the Capital Territory, Canberra, ACT. Director, Conservation and Agriculture (including Fisheries). Director, Forestry.

1988-Present: Owner-Operator, Pratt's Tackle Box, Anglers Art, A.C.T. Retail Fishing Tackle.

1960-Present: Major contributor to angling and conservation publications, author of *Canberra Fisherman*, contributor to numerous books, encyclopaedias, newspapers, scientific publications.

Currently: Angling writer *Canberra Chronicle*, NSW *Fishing Monthly*, assorted monthly magazines; angling presenter on radio stations 2CN-ABC, Canberra, 2SSS, Canberra, 2BL-ABC, Sydney and Capital Television, Canberra.

Brian's Presentation:

"Fishes in the Canberra Region"

The ACT Region contains a number of varied habitats which accommodate 9 native and 8 exotic species of fish. The fish vary in their capacity for self-sustainability. Some breed readily and maintain high populations. Other populations are maintained only by stocking. Some species have high recreational value; others are purely of conservation importance. There are several species of pest significance. Destruction of habitat, disease, predation and migration appear to be major factors affecting the size and structure of populations.

BRUCE SAMBELL

About Bruce Sambell:

As Bruce puts it, "About forty-five years ago someone carelessly gave me a goldfish. I was immediately infected". From that day on Bruce's fascination with fish and the aquatic world has dominated his life.

Almost a quarter of a century ago his amateur status was lost when he entered the industry at a professional level. Working as a sales rep for a wholesaler to the pet and aquarium trade, then as he puts it "the dream job", manager of an aquarium retail outlet. In 1978 he moved from Melbourne to Sydney where he owned up to three retail aquarium shops. This was where he became hooked on Australia's native fish.

Finally in 1988 Bruce began to establish an ornamental fish farm in Queensland. The farm, on 200 acres is the largest of its type in Australia. Features include 120 ponds, 4 dams, and a large hatchery building. Swordtails, Platies, Barbs, Gouramis and Danios added to the large range of native fish that have made the venture a success.

Bruce is the President of the Aquaculture Association of Queensland, he also sits on a number of Queensland Government bodies as an industry consultant. Some of the recent changes to laws regarding collecting fish in Queensland will be covered in this talk.

Bruce's Presentation:

"A year as a fish farmer"

Bruce will use slides and video to show some of his activities and adventures over the last year. This will include many trips to the bush to collect broodstock fish for this season, also day to day activities on the farm and some of the antics of the visiting ANGFA members.

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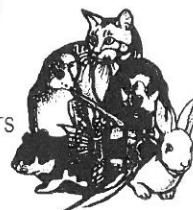
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SHANE WILLIS

About Shane Willis:

Shane Willis studied aquaculture at the Australian National Key Centre for Aquaculture at the University of Tasmania, attaining a Bachelor of Applied Science, a Graduate Diploma of Applied Science (Aquaculture) and a Masters of Applied Science (Aquaculture) – studying the culture potential of ornamental fish in indoor recirculating systems. Shane's work history includes working in marine and freshwater fish hatcheries in Australia and teaching at the National Key Centre. He currently works in his family's business, the Tasmanian Ornamental Fish Farm, and does consultancy work in disease management and production of ornamental fish.

Shane's Presentation:

"Indoor Commercial Production of Rainbows and other Native fish"

Shane will talk about his experiences in the commercial production of ornamental fish, particularly Rainbows, in indoor recirculating systems at Tasmanian Ornamental Fish Farm. A brief discussion of general activities including species produced, production facilities and general fish husbandry will be provided. Production methods used for native and New Guinea fish species will also be discussed, as well as the problems encountered in their production.

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