



IIFET 2002

August 19-22, 2002

Conference Programme

A. Notes:

1. All activities at **Victoria University of Wellington Functions Centre** unless otherwise specified.
2. Only presenters are shown against each paper. See full abstract listing for authors. Note that Presenters may not be the author – please use Number Key at the end of each Paper Title, to locate authors in the Abstract Listing
3. A number of papers were changed following the conference. This programme reflects the original titles of the papers given at the conference. See Table of Contents for revised titles.
4. Note also that not all papers presented at the conference have been included in the proceedings. Some papers were unable to be completed and others are to be published in other journals. See the Table of Contents for the listing of papers included in the Proceedings.

B. Key to Conference Themes and Special Sessions

- A** International Seafood Trade: Rules Based Reform
 - B** Economic Solutions to Customary, Aboriginal and Traditional Fishing Rights Issues
 - C** Fisheries Management Through Regional Fisheries Organisations
 - D** Ecosystem and Oceans Policy Approaches to Fisheries Management ++
 - E** Aquaculture
 - F** Marine Resources for Recreation and Tourism (incorporated in to D) ++
 - G** Theoretical and Empirical Bio-economic Modelling
 - H** Future Paths for Rights Based Fisheries Management – Co-management. Devolution and Beyond
- ++ Themes D and F to be combined Sessions
- 1** **SP1** Training Fisheries Managers for the 21st Century – Follow up to Queenstown 2001 Workshop
 - 2** **SP2** Access Sharing Arrangements – Definition, Measurement and Exchange Methodologies
 - 3** **SPA** Fish in Food Security and Income in Developing Countries: Role of Growing Aquaculture and Changing Trade Regime"
 - 4** **SEG** Socio - Economic Group

C. Daily Programme

Sunday August 18 2002

3.00pm – 8.00pm

Registration – the Atrium

Registration services will be available during this time. For those of you arriving in Wellington before Sunday afternoon we would urge you to register on the Sunday to avoid a last minute rush

Monday August 19 2002

8.30am – 10.00am	Registration – the Atrium
10.00am – 11.00am	<p>Conference Official Opening and Maori Welcome Memorial Theatre</p> <p>- Lee Anderson President of IIFET - Professor Stuart McCutcheon, Vice Chancellor of Victoria University of Wellington</p> <p>Conference Keynote Speaker* - Peter Pearse Emeritus Professor University of British Columbia (Theme H)</p>
11.00am – 11.15am	Break - Tea and Coffee – Union Hall
11.15am – 12.30pm	<p>Concurrent Conference session H – Future Paths for Rights Based Fisheries Management – Room L119 1st Floor Hunter</p> <p>New Zealand Analysis: Chair Jon Sutinen</p> <p>Gina Straker A Regulatory History of New Zealand's Quota Management System (135) James Stewart Trends in Ownership Structure in the New Zealand Fishery (264) Suzi Kerr Fish Stock Markets (82)</p> <p>Discussion</p>
11.15am – 12.30pm	<p>Concurrent Conference session D and F – Ecosystem and Oceans Policy Approaches to Fisheries Management/ Marine resources for Recreation and Tourism – Room L220 2nd Floor Hunter</p> <p>Approaches to Ecosystem Based Fisheries Management Chair: Jonathan Peacey</p> <p>Katherine Short Ecosystem-based Management of Marine Capture Fisheries (163) Poul Degnbol The ecosystem approach and fisheries management institutions: the noble art of addressing complexity and uncertainty with all onboard and on a budget. (171) Yoshiaki Matsuda Missing Links in Ocean Governance (53) Tsuyoshi Kawasaki Toward a new Paradigm of the Fisheries Management (29)</p> <p>Discussion</p>
11.15am – 12.30pm	<p>Concurrent Conference session G – Theoretical and Empirical Bio-economic Modelling – Meeting Room 1</p> <p>Attitudes and Preferences: Chair Ola Flaaten</p> <p>Hakan Eggert Are Commercial Fishers Risk Lovers? (126) Paul Hillis Evolution of Profitability and Fisher Attitudes 1990 – 2000 in the Irish Sea, - an Overfished Fishery (140) Simon Mardle Analysing stakeholder preferences on multiple objectives in a bioeconomic model of the fisheries of the English Channel (174)</p>

Rita Curtis	Incorporating Information and Expectations in Fishermen's Spatial Decisions. (268)
	Discussion
12.30pm – 1.30pm	Lunch – Union Hall
1.30pm – 2.15pm	Plenary Lead Speaker #, Theme D and H – Union Hall – Chair Lee Anderson Hon Pete Hodgson New Zealand Minister of Fisheries
2.15pm – 3.45pm	Concurrent Conference session H – Future Paths for Rights Based Fisheries Management – Room L119 1st Floor Hunter
	Approaches to Management: Chair Lee Anderson
Parzival Copes	A Normative Analysis of Rights Based Fishing (36)
Sebastian Metz	A group analysis of fishermen perception of the stakes for the future of fisheries in Europe: results of a postal survey. (234)
Jesper Nielsen	Stakeholder Preferences for the Management of Danish protein fisheries in the North Sea (151)
Anthony Cox	Fisheries Management Costs: Experiences and Insights from OECD Countries (218)
Ralph Townsend	The Role of Coasian Bargaining in Efficient Fisheries Exploitation (172)
	Discussion
2.15pm – 3.45pm	Concurrent Conference session D and F – Ecosystem and Oceans Policy Approaches to Fisheries Management/ Marine resources for Recreation and Tourism – Room L220 2nd Floor Hunter Marine Protected Areas: Chair: Cath Wallace
Jon Sutinen	Marine Protected Areas and Habitat: A Bio –Economic Analysis (71)
Siv Reithe	Marine Reserves in Combination With Optimal Quotas as Fisheries Management Tools in a Patchy Environment: When does Marine Reserve Creation Pay? (115)
Thomas Murray	Characterization of the Dry Tortugas Commercial Fishery: Methodology and Findings. (111)
	Discussion
2.15pm – 3.45pm	Concurrent Conference session G – Theoretical and Empirical Bio-economic Modelling – Meeting Room 1
	Attitudes and Preferences (Choices): Chair Michael Harte
Martin Smith	State Dependence and Heterogeneity in Fishing Location Choice (160)
David Sampson	Evaluating the Accuracy of Trawlbook Estimates of Discards and Bycatch (190)
Viktoria Schneider	What Saved the Whales? An Economic Analysis of 20 th Century Whaling (271)
Sherry Larkin	Multi-species Fishermen in South Florida: Trends and Management Implications (192)
Thomas Jan Voon	Price Vs Quality Control: A Dynamic Analysis of Fishery Regulation (33)

Discussion

3.45pm – 4.00pm

Break for Tea and Coffee – Union Hall

4.00pm – 6.00pm

Concurrent Conference session H – Future Paths for Rights Based Fisheries Management – Room L119 1st Floor Hunter**Rights Based Experience: Chair Bjoern Hersoug**

David Cashmore

Implementing Change in Fisheries Management: Principles and Case Study (220)

Russell Burnard

Devolution of Fisheries Administrative Services in New Zealand – a Case Study (227)

Jonathan Peacey

Management of fish by –catch in an ITQ –based management system (130)

Discussion

Randall Bess

Expansion of New Zealand's Quota Management System (204)

Cath Wallace

"Malicious Questions": rival and non-rival rights, future generations and the environment. Does the implementation and institutional evolution of the New Zealand Fisheries Quota Management System "ensure sustainability"? (202)

Nick Wyatt

Fisheries Plans: A Path to Better Stakeholder Participation? (129)

Discussion

4.00pm – 6.00pm

Concurrent Conference session D and F – Ecosystem and Oceans Policy Approaches to Fisheries Management/ Marine resources for Recreation and Tourism – Room L220 2nd Floor Hunter**Ecosystem Management Examples: Chair: Poul Degnbol**

Heather Brayford

A New Approach to Fisheries Management in Western Australia(265)

Ralf Doering

The Ecosystem Approach as a New Concept in EU Fisheries Management (14)

Discussion

Transform Aqarau

Obligations to Protect Marine Ecosystems Under International Conventions and Other Legal Instruments (273)

Timothy Castle

Ecosystem and Oceans Policy Approaches to Fisheries Management (250)

Discussion

4.00pm – 6.00pm	<p>Concurrent Conference session G – Theoretical and Empirical Bio-economic Modelling – Meeting Room 1</p> <p>Measuring Efficiency and Capacity (Stochastic Frontiers): Chair Harry Campbell</p> <p>David Castilla Espino A Stochastic Frontier Model to Determine Technical Efficiency of Purse Seine Vessels in the Gulf of Cadiz (Spain) (50)</p> <p>Tom Kompas Catch, Efficiency and the Management of the Australian Northern Prawn Fishery (65)</p> <p>Nhu Che Efficiency Gains and Cost reductions from ITQs: A Cost Frontier for the Australian South East Fishery (64)</p> <p>Diana Tingley Factors affecting technical efficiency in fisheries: Stochastic Production Frontier 'v' Data Envelopment Analysis approaches (211)</p> <p>Louisa Coglan Impact of Experience and Technology on Individual Fisher Technical Efficiency (263)</p> <p>Discussion</p>
6.00pm – 6.30pm	Break
6.30pm – 8.00pm	<p>Opening Cocktails</p> <p>Venue: Adam Art Gallery Victoria University of Wellington</p> <p>Hosted by the New Zealand Ministry of Fisheries</p>
8.00pm – 9.30pm	<p>Training Managers for the 21st Century – Post Workshop Follow – Up Meeting – Meeting Room 1</p> <p>(Open to those who participated in the Queenstown, NZ workshop on Training Managers for 21st Century Fisheries in November 2001)</p>

Tuesday August 20 2002

- 8.45am – 9.30am **Plenary Lead Speaker # Theme A – Union Hall**
- Chair Alastair Macfarlane
 Lori Ridgeway Chairperson OECD Fisheries Committee
- 9.30am – 10.45am **Concurrent Conference session A – International Seafood Trade: Rules Based Reform – Room L220 Hunter**
- Global Overview: Chair Cathy Wessels**
- Alastair Macfarlane Looking into a Cloudy Crystal Ball - Conjecturing Outcomes for the Fisheries Trade from the World Trade Organisation's Negotiations (262)
- Chris Leggett The Relationship Between Trade Measures Used Under Multilateral Fisheries Management Agreements and Trade Obligations under WTO Agreements (179)
- Amadou Tall Contribution to the Traceability/ Recall Procedures based on FA (USA) and DFO (Canada) Regulations (215)
- Attle Guttormsen import Demand estimation and the Generalized Composite Commodity Theorem (175)
- Discussion**
- 9.30am – 10.45am **Concurrent Conference session D and F – Ecosystem and Oceans Policy Approaches to Fisheries Management/ Marine resources for Recreation and Tourism – Meeting Room 1**
- Recreational Fishing and Fishery Management Plans: Chair: Susan Hanna**
- Alastair McIlgorm Economic and Social Impact assessment of Environmental Fishery Management Plans: The NSW Experience (200)
- Kim Walshe Attitudes and perceptions of New Zealand marine Recreational Fishers Towards the Management of Their Fishery (90)
- Brad Gentner Economic Impacts of Marine Recreational Angling in the United States (34)
- Discussion**
- 9.30am – 10.45am **Concurrent Conference session H – Future Paths for Rights Based Fisheries Management – Room L119 Hunter**
- Closing the Commons: Chair Anthony Cox**
- Bjoern Hersoug The Closing of the Norwegian Commons (209)
- Takeshi Hidaka Institutional Change of Fishery Management System Caused by the TAC in Japan (112)
- Martin Smith Limited Entry Licensing and Adaptive Management (48)
- John McKinlay Enforcing Program Optimisation Through Adaptive Management (40)
- Discussion**
- 10.45 – 11.00am Break for Tea and Coffee – Union Hall

11.00am – 12.30pm	<p>Concurrent Conference session A – International Seafood Trade: Rules Based Reform – Room L220 2nd Floor Hunter</p> <p>Globalisation Case Studies: Chair Amadou Tall</p> <p>Moustapha Deme Environmental and Socio- Economic impact of the trade Liberalisation and Development Policies for Sustainable Management of the Senegalese Fishery Sector (24)</p> <p>Fu-Sung Chiang A Study of the Impacts of Free Trade on Taiwan’s Fisheries Sector- An Application of the General Equilibrium Analysis (67)</p> <p>Audun Iversen Globalisation and Strategies in the Norwegian Fish – Processing Industry? – Coping or Proactive Restructuring (176)</p> <p>Max Nielsen Trade Liberalisation and Resource Sustainability – a Case Study of Long Run Effects of Liberalising European Cod Trade (76)</p> <p>Torbjorn Lorentzen The Salmon – Agreement between Norway and EU – A Welfare Economic Analysis (139)</p> <p>Discussion</p>
11.00am – 12.30pm	<p>Concurrent Conference session G – Theoretical and Empirical Bio-economic Modelling – Meeting Room 1</p> <p>Measuring Efficiency and Capacity (DEA and Other Approaches): Chair Jenny Sun</p> <p>Erik Lindebo Economic and Physical Measures of Capacity: A Comparative Analysis of Danish Trawlers (79)</p> <p>Sean Pascoe Estimating the Level of Mis-Recording and Discarding in Fisheries using DEA (159)</p> <p>Noel Roy Economic Performance of the Newfoundland Fisheries (185)</p> <p>Sean Pascoe Analysis of the Efficiency of the Spanish Deep Trawl Fishery Operating in Moroccan Waters (161)</p>
11.00am – 12.30pm	<p>Concurrent Conference session H – Future Paths for Rights Based Fisheries Management – Room L 119 1st Floor Hunter</p> <p>Co-Management: Chair Jesper Nielsen</p> <p>Ching-Ta (Ted) Chuang A study on Community Based Co-Management Fisheries and Setting Closed Fishing Seasons (103)</p> <p>Michelle James Co-Management and Beyond: the British Columbia Experience (revised abstract)(127)</p> <p>John Willmer Co-Management and Institutional Legitimacy in a New Zealand Rock Lobster Fishery (85)</p> <p>Warrick Sauer Fisheries Management in Post Apartheid South Africa (132)</p> <p>Discussion</p>
12.30pm – 1.30pm	Lunch – Union Hall
1.30pm – 2.15pm	<p>Plenary Lead Speaker # Theme B – Union Hall - Chair Tom McClurg</p> <p>Kirsty Woods, Policy Manager, Treaty of Waitangi Fisheries Commission</p>

- 2.15pm – 3.30pm **Concurrent Conference session A – International Seafood Trade: Rules Based Reform – Meeting Room 2**
- Ecolabelling: Chair Alastair Macfarlane**
- Amanda Chadwick Marine Stewardship Council: Who should seek certification and why? (137)
- Sherry Larkin Eco-labelling Marine Ornamentals: Expected Demand and Value from a Conjoint Survey (191)
- Cathy Wessels The Battle of Taste Buds and Environmental Convictions: Which One Wins (203)
- Jayne Gallagher Sustainable Seafood – An Industry Driven Approach to Economic and Environmental Sustainability (206)
- Discussion**
- 2.15pm – 3.30pm **Concurrent Conference Sessions B – Economic Solutions to Customary, Aboriginal and Traditional Fishing Rights Issues – Room: L220 2nd Floor Hunter - Chair Tom McClurg**
- Matthew Hooper Indigenous Fishing Rights in New Zealand – from rhetoric to reality (144)
- Alison Arnold Customary Fishing in Aotearoa: the Ngati OneOne Experience (272)
- Timothy Castle Economic Solutions to Customary, Aboriginal and Traditional Fishing Rights Issues (254)
- Peter Britz Measuring Transformation in the South African Fishing Industry
- Discussion**
- 2.15pm – 3.30pm **Concurrent Conference session H – Future Paths for Rights Based Fisheries Management – Room L119 1st Floor Hunter**
- Risk Management: Chair Rebecca Metzner**
- Jose A Perez Agundez Parallel collapses of Canadian Cod (*Gadus Morhua*) and European Hake (*Merluccius Merluccius*) fisheries: “Chronicle of a Death Foretold” (95)
- Chuck Hamel Risk Management in the Bristol Bay Salmon Fishery (198)
- Frank Millerd Turning Points in the Development of the British Columbia Salmon Fishery (62)
- Ching-Ta (Ted) Chuang Participation in Vessel Buyback Programs: An Option Value Model of the Vessel Scrapping Decision (102)
- Discussion**
- 2.15pm – 3.30pm **Special Session - SPA - Fish in Food Security and Income in Developing Countries: Role of Growing Aquaculture and Changing Trade Regime” – Meeting Room 1 Chair Mahfuz Ahmed**
- Part One:**
1. Changing structure of fish supply, demand and trade in developing countries: introduction to the issues - M Ahmed and M Dey; (239)
 2. Fish as food: projections to 2020 from the IMPACT Global Food Model- C Delgado, M Rosegrant, S Meiger, N Wada and M Ahmed; (141)

3. Modeling Asian fish sector: issues, theoretical framework and practical approaches- M Dey and M Ahmed; (246)

4. Analysis of fish demand in Thailand- Somying Piumsombun; (245)

To be Continued in 3.45pm – 5.30pm Session.

3.30pm – 3.45pm Break for Tea and Coffee – Union Hall

3.45pm – 5.30pm **Concurrent Conference Sessions B – Economic Solutions to Customary, Aboriginal and Traditional Fishing Rights Issues – Room L220 2nd Floor Hunter**
Chair Mat Hooper

Foday Turay Community Projects in the Sustainable Fisheries Livelihood Programme in West Africa: Design and Implementation Issues (229)

Hamed Al – Oufi Factors Influencing the Emergence of Collective Action in a Traditional Fishery: An Empirical Assessment of Three Coastal Fishing Towns in Oman (30)

Concepcion Cortes Rodriguez Management of Small-Scale Fisheries in Andalusia (Spain) Applying Multiple-Criteria Decision – Making Techniques (51)

Concluding Panel Discussion ##: Chair Tom McClurg

3.45pm – 5.30pm **Concurrent Conference session H – Future Paths for Rights Based Fisheries Management – Room L119 1st Floor Hunter**

Rights Based Experience: Chair Ted Chuang

Tadashi Yamamoto Rights Based Fishery in Asian Countries (66)
Jay Ginter Rights – Based Fishery Management Systems in Marine Fisheries off Alaska (219)

Gil Sylvia Managing Risk, Profit, and Sustainability for ITQ Fisheries: A Bioeconomic Analysis of a Rotational Enhancement Scallop Fishery (60)

Discussion

Rosalyn Bell ITQs and In-Season Variability in Abundance (91)
Tracy Yandle The Challenge of building Successful Stakeholder Groups: New Zealand's Experience in Developing a Co-management Regime (98)

Jon Sutinen Economic Performance Of An ITQ Fishery With Seasonal Stock Depletion A Case Study Of The New Zealand Southern Scallop Fishery (269)

Discussion

3.45pm – 5.30pm **Special Session - SPA - Fish in Food Security and Income in Developing Countries: Role of Growing Aquaculture and Changing Trade Regime" – Meeting Room 1 Chair Mahfuz Ahmed**

Part Two:**Continued:**

5. Urbanization, income growth and demand for fish in China- J Huang and Luping Li; (242)
6. Analysis of fish trade policies in developing Asian countries: liberalization vs. barriers- M M Dey, M Ahmed and K M Jahan; (241)
7. Ecolabeling and small scale fisheries, will a community-based certification work - K Kuperan Viswanathan; (244)
8. The evolution of Philippines fisheries policies and export performance under a trade liberalizing environment- A C Costales and Y T Garcia; (240)
9. Fisheries trade in India: policies, performance and competitiveness – A Kumar and P K Joshi. (243)

5.30pm – 6.30pm

Poster Viewing – Union Hall

Wednesday August 21 2002

- 8.45am – 9.30am **Plenary Lead Speaker # Theme C – Union Hall**
Chair Robin Allen
 Michael Lodge Legal Counsel International Seabed Authority,
 and Head of the Preparatory Conference for the Western and
 Pacific Fisheries Convention
- 9.30am – 10.45am **Concurrent Conference session C – Fisheries Management**
Through Regional Fisheries Organisations – Room L220 2nd
Floor Hunter
- European Union Studies: Chair Robin Allen**
- Maria Hernandez Garcia The European Community and the illegal fishing: measures
 concerning the fishery market". (119 Part 1)
- José Manuel Sobrino Heredia The European Community and the illegal fishing: measures
 concerning the effective exercise of the flag-State (119 Part 2)
- Anne J Rahming Inefficient Decisions, Emergencies and the Benefits of Delegated
 Power: Measuring Commission Power in EC Fisheries Policy-
 Making (68)
- Adela Ray Aneiros International efforts against illegal fishing and regional fisheries
 organizations (270)
- Discussion**
- 9.30am – 10.45am **Concurrent Conference session D and F – Ecosystem and**
Oceans Policy Approaches to Fisheries Management/
Marine resources for Recreation and Tourism – Meeting
Room 1
- Eco-tourism and Case Studies: Chair: Susan Hanna**
- Ching-Ta (Ted) Chuang A Socio-economic Assessment on Sustainable Eco-tourism
 Development at Hsiao-Lui-Chiu Island in Taiwan (104)
- Jon Sutinen Reducing harbor porpoise By-catch: ITQs or Time Area
 Closures? An Empirical Analysis of Harbor Porpoise in the New
 England Multi-species Sink Gillnet Fishery (70)
- Ruangrai Tokrisna Economic Instruments in Thai Marine Rehabilitation (75)
- Discussion**
- 9.30am – 10.45am **Concurrent Conference session H – Future Paths for Rights**
Based Fisheries Management – Room L119 1st Floor Hunter
- Rights Based Experience: Chair Alastair Mcllgorm**
- Ellen Hoefnagel The Future of the Dutch ITQ Co-Management System (150)
- Asgeir Danielsson Rental Prices of quotas, Prices of Quota Shares and the
 Profitability of Fisheries in Iceland (155)
- Oumarou Njifonjou Fisheries Co-Management And Poverty Alleviation In The
 Context Of The Sustainable Livelihoods Approach: A Case
 Study In The Fisheries Communities Of Aby Lagoon In Côte
 D'ivoire (15)
- Discussion**

10.45 – 11.00am	Break for Tea and Coffee – Union Hall
11.00am – 12.30pm	<p>Concurrent Conference session C – Fisheries Management Through Regional Fisheries Organisations – Room L220 2nd Floor Hunter</p> <p>Case Studies: Chair Mike Lodge</p> <p>Robin Allen William J Neilander Joel Opnai Joanna Mossop</p> <p>Rights and Obligations: Regional Tuna Bodies and Co-operation among States to Manage the Use of Tuna Stocks (233) Limited Entry on the High Seas: ITQs Beyond Boundaries (128) Implementing the Convention on the Conservation and Management of the Highly Migratory Fish Stocks in the Western and Central Pacific Ocean (122) Adaptive Ecosystems Management: Potential Impact on International Fisheries Regimes (143)</p> <p>Discussion</p>
11.00am – 12.30pm	<p>Concurrent Conference session G – Theoretical and Empirical Bio-economic Modelling – Meeting Room 1</p> <p>Bioeconomic Modelling: Applications (Productivity and Impact): Chair Tracy Yandle</p> <p>R Quentin Grafton Ragnar Tveteras Larry Perruso Nassir Niamaimandi</p> <p>Productivity and Regulatory Change in Australia’s Northern Prawn Fishery (83) Aggregation Level and Prediction of Fishing vessel Behaviour and Productivity (revised title and abstract)(189) A Dual Production Analysis of a Multispecies Fishery: The Case of the US Atlantic Longline Fleet (193) Population Dynamics of the Tigertooth croaker, <i>Otolithes ruber</i> in the Persian Gulf (9)</p> <p>Discussion</p>
11.00am – 12.30pm	<p>Concurrent Conference session H – Future Paths for Rights Based Fisheries Management – Room L119 1st Floor Hunter</p> <p>Future Paths: Chair Bruce Shallard</p> <p>Stan Crothers Tom McClurg Rebecca Metzner Jesper Raakjaer Nielsen Bjoern Hersoug</p> <p>Future Paths for Rights Based Fisheries Foundations for Effective Marine Ecosystem Management (251) Do We Need a Multi-disciplinary Approach to Fisheries Management? Or Are We even on the path of Fisheries Management? (183) Fisheries Co-management – An Institutional Innovation – Perspectives and Challenges Ahead (216) Limits to co-management – the case of New Zealand (208)</p> <p>Discussion</p>
12.30pm – 1.30pm	Lunch – Union Hall
1.30pm – 3.00pm	<p>Plenary Panel and Conference Debate “Future Paths” – Memorial Theatre</p> <p>Plenary Panel Members – “Future Paths” -Peter Pearse</p>

- Stan Crothers (NZ Ministry of Fisheries)
- Bjorn Hersoug (Tromso University Norway)
- Tadashi Yamamoto (Japan International Fishery Research Society (JIFRS))
- Cath Wallace (Victoria University Wellington)
- John Valentine (NZ Seafood Industry Council) (Chair)

3.00pm – 3.45pm

Concurrent Conference session C – Fisheries Management Through Regional Fisheries Organisations – Room L220 2nd Floor Hunter

Case Studies: Chair Robin Allen

Chris Reid

An Analysis of Fishing Capacity in the Western and Central Pacific Ocean Tuna Fishery and Management Implications (123)

Yoav Wachsmann

A Model of Fishing Conflicts in Foreign Fisheries (217)

Vina Ram Bidesi

Regional Arrangements for Management and Development of Tuna in the Pacific Islands: The Case Study of the Palau Arrangement and the Federated States of Micronesia Arrangement (223)

Discussion

3.00pm – 3.45pm

Concurrent Conference session D and F – Ecosystem and Oceans Policy Approaches to Fisheries Management/ Marine resources for Recreation and Tourism – Meeting Room 2

Case Studies: Chair: Kim Walshe

Geoff Kerr

New Zealander's Perceptions of the Marine Fisheries and their Management (56)

Jennie McMurran

Development of an Environmental Strategy for New Zealand (131)

Concluding Panel Discussion ##: Chair Jonathan Peacey

3.00pm – 3.45pm

Concurrent Conference session G – Theoretical and Empirical Bio-economic Modelling – Meeting Room 1

Bioeconomic Modelling: Applications (Case Studies):

Sean Pascoe

Comparative Approaches to Measuring Fishing Effort in the Scottish Trawler Fleet (2)

Charmaine Marie Gallagher

Optimisation Model for the Oregon Ocean Shrimp Fishery (57)

Zurillea Steenkamp, S Uulenga

Bio-economic Analysis of the Namibian Rock Lobster (86)

3.00pm – 3.45pm

Special Session - Sp1 Building Human Capital for 21st Century Fishery Management: The Challenges and Opportunities " – Room L119 1st Floor Hunter, Chair Gil Sylvia

Part One:

The session focuses on how economists and other social scientists can improve the education of fishery managers and the design and effectiveness of the fishery management process. Speakers will discuss the key challenges in educating managers at every level of the management process – from stakeholders to policymakers -- and the role of economics, decision science, and leadership training in improving the ability of managers to make and implement effective decisions. Speakers will also summarize the results and recommendations from the workshop on "Educating Fishery Managers for 21st Century Fisheries" held in Queenstown, New Zealand in December 2001. The session will conclude with a panel discussion to evaluate the most effective strategies to improve fishery management education and how these strategies could be implemented. The potential role of IIFET in supporting key recommendations will also be discussed.

Poul Degnbol	Educating Fishery Managers and Policymakers and Creation of More Cost- Effective and Democratic Fisheries Management Systems (170)
Alastair McIlgorm	Fisheries Management Training for Sustainable Governance (201)
Michael Arbuckle	Fisheries Management Under Regulatory Constraint (266)
Susan Hanna	Educating US Fishery Managers and Policy Makers: The Problem of Incentives (230)

3.45pm – 4.00pm

Break for Tea and Coffee – Union Hall

4.00pm – 5.30pm

Concurrent Conference session A – International Seafood Trade: Rules Based Reform – Meeting Room 1

Product: Chair Sherry Larkin

Bent Dreyer	New Paths in the raw Material Flow (107)
John- Roald Isaksen	Input Diversity and Performance in Fish Processing Firms (108)
Ali Emani	The role of the Non-Fisheries Sectors on the Impact of Fishery Management by a Seafood – Importing Country (162)

Discussion

4.00pm – 6.00pm

Concurrent Conference session C – Fisheries Management Through Regional Fisheries Organisations – Room L220 2nd Floor Hunter

Pacific Case Studies: Chair Mike Lodge

Grant Bryden	Introduction – New Zealand Ministry of Foreign Affairs and Trade
Pacific States Delegates	Pacific States Fishery Reports (five minute reports) covering the following issues: <ul style="list-style-type: none"> • the economic relevance of the fishing sector to each country • critical issues for the fishing sector, • future management proposals, • licensing of foreign fishing fleets/ domestication of the fish catching and processing industry,

- vision for the Western Pacific Regional Fisheries Organisation,
- infrastructure challenges to fish marketing/exporting

Concluding Discussion

4.00pm – 6.00pm

Special Session - Sp1 Building Human Capital for 21st Century Fishery Management: The Challenges and Opportunities " – Room L119 1st Floor Hunter Chair Gil Sylvia

**Part Two:
Continued:**

Laura W Jodice

Training Managers for 21st Century Fisheries: An Analysis of Programs and Curriculum (252)

Gil Sylvia

Summary and Recommendations From an International Workshop – Training Managers for 21st Century Fisheries (253)

Panel discussion: Chair Gil Sylvia

To evaluate the most effective strategies to improve fishery management education and how these strategies could be implemented

7.00pm – late

Conference Dinner

Venue: Te Papa - New Zealand National Museum

Thursday August 22 2002

- 8.45am – 9.30am **Plenary Lead Speaker # Theme E – Union Hall**
Chair Mahfuz Ahmed
 Gunnar Knapp Professor of Economics
 Institute of Social and Economic Research
 University of Alaska, Anchorage
- 9.30am – 10.45am **Concurrent Conference session A – International Seafood Trade: Rules Based Reform – Room L119 1st Floor Hunter**
- Marketing Related Studies: Chair Alastair McIlgorm**
- Charles Adams Effect of Imports of Caribbean Spiny Lobster on the Dockside Price of Panulirus argus in Florida (194)
 Cathy Wessels Market Promotion and Consumer Demand: Analysis of Advertising Effects on Japanese Demand for Norwegian Salmon (178)
- Discussion**
- Health: Chair Alastair McIlgorm**
- Torbjorn Trondsen Consumption of Seafood – The Influence from Overweight and Health Beliefs (Revised Abstract) (54)
 Torbjorn Trondsen Age, Period or Birth Cohort: What Determines Demographic Differences in Seafood Consumption? (182)
- 9.30am – 10.45am **Concurrent Conference session E – Aquaculture – Room L220 2nd Floor Hunter**
- Product: Chair Gunnar Knapp**
- Porter Hoagland The Optimal Allocation of ocean Space: Aquaculture and Wild-Harvest (61)
 Nikolas Wada Environmental Tradeoffs Between Aquaculture and Capture Fisheries (157)
 Atle Guttormsen Faustmann in the Sea, Optimal Rotation in Aquaculture (69)
- Discussion**
- 9.30am – 10.45am **Concurrent Conference session G – Theoretical and Empirical Bio-economic Modelling – Meeting Room 1**
- Bioeconomic Modelling: Theory (Access Rights): Chair Quentin Grafton**
- Lisa Chapman, Stephen Beare Managing with Imperfect Access Rights (39)
 Frank Asche Over-Capacity, Regulation and Rent: A Norwegian Case Study (134)
 Mark Hermann an Exploratory Economic Analysis of the Pacific Halibut Commercial Fishery (142)
 Jung-Hee Cho Optimal exploitation of Atlantic Herring Stocks in USA: An Application of Bioeconomic Model (222)
- Discussion**

9.30am – 10.45am

**Special Session SP2 Access Sharing Arrangements –
Definition, Measurement and Exchange Methodologies
– Meeting Room 3 Chair Roger Edwards**

Resource Sharing - A Market based Solution?

1. Setting the scene and evaluation criteria - presentation - D Sykes
2. Case studies 1 Sth Aust Lobster commercial resource sharing mechanism - R Edwards
3. Constructed model - G Kailis & G Leyland
- 4 Other examples - subject to other participants
5. Interactive session assessing case study and constructed model - All to assist
5. Summarising and management options - G Leyland

Roger Edwards*	Resource Sharing - Setting and Evaluating the Scene (236)
Roger Edwards*	Case Study: South Australian Rock Lobster Fishery – Commercial resource Sharing (237)
Roger Edwards*	Constructed Resource Sharing Scenario (238)

* Daryl Sykes, Guy Leyland, George Kaillis, and Roger Edwards

10.45 – 11.00am

Break for Tea and Coffee – Union Hall

11.00am – 12.30pm

**Concurrent Conference session A – International Seafood
Trade: Rules Based Reform – Room L119 1st Floor Hunter**

Marketing Related Studies: Chair Frank Asche

Amadou Tall	Obstacles to the Development of Small Scale Fish Trade in west Africa (214)
Jarno Virtanen	The Effect of trade Liberation to the Salmon Market in Finland (167)

Discussion

Fish Oil and Meal: Chair Frank Asche

Sigbjorn Tveteras	Modelling Derived Demand for Fish meal Using a Heterogeneous Estimator for Panel Data (186)
Nikolas Wada	Future Outlook for Fish Meal and Fish oil Demand: The Role of Aquaculture (173)
Sigbjorn Tveteras	Fish Meal Price Forecasting and the El Nino (187)

Discussion

11.00am – 12.30pm

**Concurrent Conference session E – Aquaculture
– Room L220 2nd Floor Hunter**

Product: Chair Ann Shriver

Peter Rawlinson	Increasing Water Use Efficiency Through Integrated Agri- Aquaculture (58)
Jenny Chin-Hwa Sun	Technical Efficiency Analysis of the Milkfish Production in Taiwan- an Application of Stochastic Frontier Production Function (121)
Beverly Cook	Salmon Aquaculture Development and Coastal Management in New Brunswick (181)

Discussion

11.00am – 12.30pm

Concurrent Conference session G – Theoretical and Empirical Bio-economic Modelling – Meeting Room 1**Bioeconomic Modelling: Theory (Other Issues):
Chair Harry Campbell**Ola Flaaten
Lee G Anderson
Dan HollandA Lecture Note on the Economics of Fish Stock Investment (207)
Open Access Dynamics with revenue Satisficing Vessels (38)
Optimal Effort Controls for the Multispecies Groundfish Complex
in New England (78)

Michael Harte

Optimal Exploitation and Management of a Highly Variable
Fishery: A Case Study of the Falkland Islands Loligo Squid
Fishery (80)**Discussion**

11.00am – 12.30pm

**Special Session SP2 Access Sharing Arrangements –
Definition, Measurement and Exchange Methodologies
– Meeting Room 3 Chair Roger Edwards****Continued: See detail in 9.30 – 10.45 Session**

12.30pm – 1.30pm

Lunch – Union Hall

1.30pm – 3.00pm

**Concurrent Conference session A – International Seafood
Trade: Rules Based Reform – Room L119 1st Floor Hunter****Value Chain: Chair Cathy Wessels**

Jessica Hartmann

Competitiveness of Salmon and Salmon Trout Markets Along the
Value Chain in Finland (87)

Frank Asche

Transmission of Price Signals in Cross Boundary Value Chains
(97)

Jessica Hartmann

Inter - linked Value Chains: Vertical and Horizontal Price
Linkages along the Value Chain for Salmon (88)

Asmo Honkanen, Anssi Ahvonen Outlooks in Fish Demand and Supply Chain in Finland (106)

Discussion

1.30pm – 3.00pm

**Concurrent Conference session E – Aquaculture
– Room L220 2nd Floor Hunter****Regional and Local Studies: Chair Jenny Sun**

Ian Ruru

Aquaculture and Iwi Development: Tapping the Potential of
Aquaculture in Turanganui A Kiwa (Gisborne) (109)Ruangrai Tokrisna
Subhash VermaBangkok Buyer Decision on Ruby Fish (*Oreochromis* sp) (75)
Impact Of Infectious Diseases On Sustainability Of Cultured
Fisheries- Understanding Relationship BETWEEN HOST,
PATHOGEN AND ENVIRONMENT (259)**Discussion**

1.30pm – 3.00pm

**Concurrent Conference session G – Theoretical and
Empirical Bio-economic Modelling – Meeting Room 1**

**Bioeconomic Modelling: Theory (Other Issues):
Chair Michael Harte**

Asgeir Danielsson	Risk Sharing and the Rationalisation of Sharing of Revenues and Costs (156)
Graeme Doole	The Optimal Recovery of a Semelparous Fish Population with Delayed Recruitment (267)
Per Sandberg	Improving the Exploitation Pattern in a Fishery – a practical example (93)
Rainer Klepper	Herring- an Alternative to Decreasing Baltic cod Quotas? – Model-based Analysis of the Profitability of Herring Fishery (213)

Discussion

1.30pm – 3.00pm

**Special Session - SEG Socio - Economic Group
– Meeting Room 3 Chair Suzi Kerr**

Purpose:

The Socio-economic Researchers working group is primarily aimed towards socio-economic fisheries researchers. The purpose of the session is to introduce researchers to one another, familiarise the group with current research projects and themes, and identify areas of similarity & research need.

Format:

Participants Contributions:

Participants will be invited before the Conference to complete a form, information from which will be included in the summary report of the session.

Speakers:

Those planning to speak will have 5 minutes to give a précis of their:

- current area of research/interest;
- data needs or availability;
- areas of difficulties.

This will be followed 2 minutes of questions.

Group Discussions:

Group discussion focussing on:

- future research needs,
- possible collaborations,
- future data needs.

Outcomes:

From this session we aim to produce a report detailing Socio-economic Researchers in NZ (and internationally if appropriate), their areas of research interest/expertise, and sources of data.

3.00pm – 3.15pm

Break for Tea and Coffee – Union Hall

3.15pm – 4.30pm

Concurrent Conference session A – International Seafood Trade: Rules Based Reform – Room L119 1st Floor Hunter Value Chain: Chair Alastair Macfarlane

Patrice Guillotreau	Structure of the Fish Value Chains and Dynamics of Price – Cost Margins: A Multivariate Analysis of Co - integration Results (153)
Shabbar Jaffry	Asymmetric Price Transformation: Case Study of French Hake Value Chain (149)
Frederic Gonzales	Asymmetry of Price Transmission Within the French Value Chain of Seafood Products (154)

Concluding Panel Discussion ##: Chair Alastair Macfarlane

3.15pm –4.30pm

**Concurrent Conference session E – Aquaculture
– Room L220 2nd Floor Hunter****Regional and Local Studies: Chair Gunnar Knapp**

Timothy Dalton

Bioeconomic Assessment of Alternative Cold – Water
Aquaculture Species: Early Life Stages (81)**Concluding Panel Discussion ##: Chair Gunnar Knapp**

3.15pm – 4.30pm

**Concurrent Conference session G – Theoretical and
Empirical Bio-economic Modelling – Meeting Room 1****Bioeconomic Modelling: Theory (Other Issues):
Chair Susan Hanna**

Sebastien Metz

The Short-run Viability of Fishing Vessels: The Case of the
French Norway lobster Fishery in the Bay of Biscay (249)

Harry Campbell

Conservation and Optimum Utilisation of Southern Bluefin Tuna
(10)

Toyokazu Naito

An Empirical Study of Common Property Fishery Resource: The
Case of the Western Central Pacific Ocean (52)

Roberto Enriquez-Andrade

The Use of “Generating Techniques” in Fishery Policy analysis:
Study Case for the Yellowfin Tuna Fishery (199)

3.15pm – 4.30pm

**Special Session - SEG Socio - Economic Group – Meeting
Room 3 Chair Suzi Kerr****Continued: See 1.30pm – 3.00pm Session for Details**

4.30pm – 5.30pm

**Closing Session – Union Hall
Chair: Lee Anderson**The Plenary Lead Speaker for each Theme (or a nominated alternate),
will be requested to summarise his/her thoughts, suggest what key
issues/ ideas/thoughts for future research etc have come out of the
Themes, to the full conference.

*Conference Keynote address intended to provide an overview of--and where appropriate, a challenge for the Conference and set the stage for the Theme H panel discussion on Future Paths.

Theme Plenary Lead Speakers addresses are intended to provide an overview of--and where appropriate, a challenge for--the theme, to set the stage for the theme panel discussion to be held at the conclusion of the papers for each theme, and to link the theme into the broader conference.

Theme Concluding Panels will summarise/highlight key issues raised during the Theme sessions; suggest ideas for a future direction for research in the Theme; provide an oral report for the Conference Closing Session