

# **IIFET 2000 Conference Program**\*

Monday, July 10, 2000

**Registration and Coffee, 8:00-9:30: Conference Center**

**Block A: 9:30-10:30: Welcoming and Opening Addresses**

**Chair: Ann L. Shriver, Executive Director, International Institute of Fisheries Economics and Trade**

Timothy White, Provost, Oregon State University

William Boggess, Head, Dept. of Agricultural & Resource Economics, Oregon State University

Trond Bjorndal, President, International Institute of Fisheries Economics & Trade

Louise Solliday, Watershed Advisor to the Governor of Oregon

Richard S. Johnston, Conference Organizer, IIFET 2000

**Block B: 10:30-12:00: Opening Speakers**

John Ward, Senior Economist, National Marine Fisheries Service: *Fisheries and Policy*

Thomas C. Schelling, Distinguished University Professor, Dept. of Economics, University of Maryland: *Micromotives and Macrobehavior*

**Block C: 1:30-3:00**

**Measuring Capacity: Overview and Definitional Issues, Part 1**

**Organized by: Rolf Färe and John M. Ward**

**Chair: Rolf Färe**

John M. Ward: *Capacity, Excess Capacity, and Fisheries Management*

Daniel Primont: *Measures of Excess Capacity*

Catherine J. Morrison-Paul: *Thoughts on Productivity, Efficiency, and Capacity Utilization Measurement, With Specific Application to Fisheries*

**International Trade: Theory, Empirical Analysis and Policy, Part 1**

**Chair: Ali Emami**

Ronald Jones: *A Framework for Fragmentation*

Munisamy Gopinath: *Foreign Direct Investment in Food and Agricultural Sectors*

Alper Yilmaz: *How Competitive is the World Wheat Market?*

**Back to the Future: Restoring Ecosystems Impacted by Fisheries, Part 1**

**Organized By: Tony J. Pitcher**

Tony J. Pitcher, *Back to the Future: A Methodology and Policy Goal for Future Fisheries*

R. Russ Jones, *The Role of Traditional Ecological Knowledge in the Back to the Future Approach to Ecological Modeling*

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\* Several paper titles were changed following the conference. This program reflects the original titles provided by the authors, in most cases. Please see Table of Contents for revised titles.

**Monday, July 10**

## **Regional and International Fisheries Issues**

**Chairs: Trond Bjørndal and Gordon Munro**

Trond Bjørndal and Gordon Munro: *The Management of High Seas Fishery Resources and the Implementation of the U.N. Fish Agreement of 1995: Problems and Prospects*

Kathleen Miller: *Climate, Uncertainty and the Pacific Salmon Treaty: Insights on the Harvest Management Game*

Gorazd Ruseski: *International Fish Wars: The Threat of Potential Entry and Strategic Effort Subsidization*

Pierre Failler: *Evaluation of Fishing Agreements Concluded by the European Community*

## **Political Economy, Part 1**

**Chair: Gil Sylvia**

Steven F. Edwards: *Rent-Seeking in the U.S. Atlantic Sea Scallop Fishery*

John R. Boyce: *Conservation for Sale: A Dynamic Common Agency Model of Nature Resource Regulation*

Ernst-August Nuppenau: *Cleaning of Eutrophic Inland Waters for Fishery and Amenities: On the Treatment of Dynamic Aspects in Political Economy Modeling of Statutory Regulations in Polluting Communities*

## **Compliance and Enforcement, Part 1**

**Organizer and Chair: Jon Sutinen**

K. Kuperan Viswanathan: *Illegal Fishing and Compliance in Fisheries*

Jesper Raakjaer Nielsen: *Important Factors Influencing Rule Compliance in Danish Fisheries*

Ron Boostrom: *The Community-Oriented Policing and Problem Solving Paradigm – What Have We Learned?*

## **Ecology and Theology, Part 1**

**Organizer and Chair: Alistair McIlgorm**

Susan Power Bratton: *What is Ecotheology?*

Calvin B. DeWitt: *Ethics and Eco-theology*

Karim Hamdy: *The Perspective of Islam*

## **Market Competition and Channels, Part 1**

**Chair: Ann Shriver**

Rune Lines: *Determinants of Preferences for Salmon Suppliers: An Interactionist Perspective*

Anssi Ahvonen: *Fishery Industry's Confidence Towards the Near Future in Different Levels of Production Chain in Finland*

Audun Iversen: *Top Leaders' Network -Do Organizational Characteristics Matter?*

## **Economies in Transition, Part 1**

**Chair: John P. Farrell**

John P. Farrell: *The Future of Capitalism Revisited*

Matt Amano: *Micro Actions, Macro Results: The Japanese Economic Bubble, a Management View*

Erhard Ruckes: *A Study of the Development of New Trade Patterns in an Economy in Transition*

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## **Food, Tastes, and Culture, Part 1**

**Chair: Cathy Wessells**

Sunil Khanna: *Birthday Party at McDonalds*

Jack Houston: *Factors Affecting Consumer Preferences for Fish in Taiwan*

Joaquin A. Millan: *Regional Preferences in the Spanish Meat and Seafood Consumption*

## **Fishery Management: Experiences With Permits, Quotas and License Limitation, Part 1**

**Chair: Harry Campbell**

Harry Campbell: *Model of the Market of ITQ in Australia's Multispecies South East Fishery*

Walter R. Keithly, Jr.: *The Demand for Relaying by the Louisiana Oyster Industry*

## **Aquaculture, Fisheries, and Externalities, Part 1**

**Chair: Hillary Egna**

Gary D. Sharp: *A Brief Overview of the History of Fisheries Science and its Relation to Fish Culture*

## **Block D: 3:30-5:00**

## **Aquaculture, Fisheries, and Externalities, Part 2**

**Chair: Hillary Egna**

Sigbjorn Tveteras: *On the Relationship between Aquaculture and Reduction Fisheries*

Dag Standal: *Cod farming at the intersection of fisheries & aquaculture: Combining experiences, extracting practices*

## **International Trade: Theory, Empirical Analysis and Policy, Part 2**

**Chair: Ali Emami**

Bruce Blonigen: *Antidumping Investigations and the Pass-Through of Antidumping Duties and Exchange Rates*

Kenneth J. Roberts: *Import and Consumer Impacts of U.S. Anti-Dumping Tariffs: Freshwater Crawfish*

Stephen Crutchfield: *The Economics of Food Safety and International Trade in Food Products*

Ferdinand J. Paraguas: *Comparative and Competitive Advantages of Tilapia Culture in Selected Asian Countries*

## **Back to the Future: Restoring Ecosystems Impacted by Fisheries, Part 2**

**Organized By: Tony J. Pitcher**

Ussif Rashid Sumaila: *Evaluating the Benefits From Restored Ecosystems: A Back to the Future Approach*

Nigel Haggan: *Back to the Future: A New Policy Agenda for Fisheries Management*

## **Compliance and Enforcement, Part 2**

**Organizer and Chair: Jon Sutinen**

Ronald Mitchell: *Making Treaties Effective: Mechanisms Available for Inducing Compliance*

Steve Warner: *Fisheries Law Enforcement: Assessment of Deterrence*

William J. Furlong: *Observer Deployment in the Fishery and Regulatory Self-Enforcement*

Monday, July 10

## **Ecology and Theology, Part 2**

**Organizer and Chair: Alistair McIlgorm**

Sunil Khanna: *Views on Natural Resources and Food in the Buddhist Great Tradition*

Alistair McIlgorm: *Towards an Eco-theology of Fisheries Management*

Susan Power Bratton: *Is "Waste Not, Want Not" an Adequate Ethic for Managing By-catch? Five Biblical Ethical Models for Addressing Incidental Fisheries Catch and Ecosystem Disturbance*

## **Food, Tastes, and Culture, Part 2**

**Chair: Cathy Wessells**

Jari Setala: *The Quality Perceptions of Rainbow Trout Defined by Different Market Sectors*

E. Roth: *The Price of Fish Quality*

## **Research and Teaching: Across Disciplines, Countries and Universities**

**Chair: Gil Sylvia**

George Kennedy: *New Directions in Interdisciplinary Teaching*

Jay Taylor: *Misplaced Concreteness: Prospects and Problems with Interdisciplinary Approaches to the Fisheries*

## **Market Competition and Channels, Part 2**

**Chair: Ann Shriver**

Stephane Gouin: *Adding Value and the Behavior of Actors in the Fishing Industry*

Erhard Ruckes: *Growth and Competition in the Italian Seafood Chain*

Keysuk (Steve) Kim: *Interpersonal Dependence and Interfirm Exchange: A Cross-national Study of Industrial Distributor-Supplier Relationships*

## **Economies in Transition, Part 2**

**Chair: John P. Farrell**

Clinton Atkinson: *Economic Change and the Fisheries of Russia*

Jolanta Zieziula: *Poland's Distant-Water Fisheries in Nineties—Problems and Possibilities of Their Overcoming*

Markus Vetemaa: *Collapse of Political and Economical System as a Cause for Instability in Fisheries Sector: An Estonian Case*

## **Fishery Management: Experiences with Permits, Quotas and License Limitation, Part 2**

**Chair: Harry Campbell**

Sherry L. Larkin: *Tradable Effort Permits: A Case Study of the Florida Spiny Lobster Trap Certificate Program*

Phil Smith: *The Pacific Halibut and Sablefish Individual Fishing Quota (IFQ) Program off Alaska—a Discussion of its Background, Provisions, Performance, and Pending and Proposed Changes*

Monday, July 10

## Measuring Capacity: Overview and Definitional Issues, Part 2

Organized by: Rolf Färe and John M. Ward

Chair: Rolf Färe

Dominique Greboval: *The FAO International Plan of Action for the Management of Fishing Capacity*

Eric Thunberg: *An Economic Assessment of Latent Effort and Vessel Ownership Transfer in the Northeast US Region*

## Poster and Demonstration Sessions 5:00-6:30

Didi B. Baticados: *Grouper Culture and Otoshi-ami Fishing Projects of Fisherfolk Cooperatives: Can They be Sustained?*

Tim Bostock: *OneFish Community Directory: Expanding the Boundaries of Fisheries Information Management in the Twenty-first Century*

Sonia Carrier: *EU Fisheries Agreements (1993-1997) Geographic Information System.*

Dolores Garza Gil: *1. Cointegration and Causality: An Application to Fresh Hake in the Spanish Market 2. Fisheries Management Institutions: Perceptions of Economic Agents in Galicia (Spain)*

Jimi Jinadu: *Small-Scale Fisheries in Lagos State, Nigeria: Sustainable Yield Determination*

Jack Houston: *Factors Affecting Consumer Choice of Canned Fish in Taiwan*

Michael Morrissey: *Oregon State University Seafood Laboratory: The Use of High Hydrostatic Pressure to Shuck Oysters and Extend Shelf-life*

Oumarou Njifonjou: *African Fisheries: Major Trends and Diagnostic of the 20<sup>th</sup> Century*

Shree Prasad Parajuli: *Fish Farming at Natural Lake in Nepal: Challenges & Opportunities*

Hee-Dong Pyo: *An Economic Evaluation of Coastal Wetland Preservation versus Development in Korea*

Randy Rice: *The Use of Technical Information on Sustainability and Quality in the Marketing of Alaska Wild Salmon*

Edgar Robles: *1. Poverty Profile in a Mexican Fishing Village through Participatory Techniques 2. Socioeconomic Conditions of Small-Scale Fishermen in Mexico: A Cross-Sectional Profile*

Diana Tingley: *Regional Socio-economic Studies on Employment and the Level of Dependency on Fishing—Denmark, Ireland and Greece*

Evening: 6:00-8:00 Welcoming Reception

Tuesday, July 11

8:00-9:00: on-site registration, small group meetings

Block A: 9:00-10:30

### **The Health Benefits of Seafood Consumption, Part 1**

**Chair: William F. Connor**

Balz Frei: *Welcome*

William F. Connor: *The Importance of N-3 Fatty Acids in Health and Disease*

Robert Ackman: *Fish is More than a Brain Food*

William Harris: *From Inuit to Implementation: Omega-3 Fatty Acids Come of Age*

### **Trade, Growth, Natural Resources, and the Environment, Part 1**

**Chair: John Ward**

Brian R. Copeland: *Global Warming and Free Trade: A Trade Theory View of the Kyoto Protocol*

Carol McAusland: *Cross-Hauling of Polluting Factors*

William Jaeger, *Economic Growth and Environmental Resources Allocation*

### **Aquaculture, Fisheries, and Externalities, Part 3**

**Chair: Hillary Egna**

Peter Rawlinson: *The Economics of Integrated Agri-aquaculture*

Christopher S. Wright: *Developing an Environmentally Responsible Irritant for the British Columbia Octopus Dive Fishery*

### **Market Structure, Conduct, and Performance**

**Chair: Ann Shriver**

Josue Martinez-Garmendia: *An Examination of the Shrimp Futures Market*

Hamady Diop: *Non-Stationary Markov Process Analysis of the Size Distribution of Shrimp Processing Firms in Southeast United States*

John R. Isaksen: *Vertical Integration and Performance*

Patrice Guillotreau: *Raising Rivals' Costs in the Tuna Industry*

### **Fishery Management and Producer Associations, Part 1**

**Chair: Steve Buccola**

Joe Sullivan: *Harvesting Cooperatives and Antitrust Law—Recent Developments and Implications*

Steve Buccola: *The Use of Cooperatives in Allocating the Net Returns of a Common Resource Among Individual Cooperative Members*

Keith R. Criddle: *Political Economy, Profit Maximization, and Homesteading the Eastern Bering Sea Fishery for Walleye Pollock*

Scott C. Matulich: *Cooperative Bargaining as an Alternative to ITQs: Implications of the American Fisheries Act*

Chuck Adams and Anicia E. Garcia Alvarez: *Recent Changes in the Cuban Fisheries Management Structure*

Tuesday, July 11

## **Innovations in Microeconomics: Microbehavior and Macroresults**

**Chair: Casey Van Kooten**

B. Curtis Eaton: *Coordination Cascades*

Cliff Bekar: *Usury Prohibitions*

Katrin Happe: *Applying Parallel Genetic Algorithms to Economic Problems: the Case of Agricultural Land Markets*

## **Science and Public Policy**

**Chair: Jeff Ramsey**

Jeff Ramsey: *Relationships Between Science and Management*

Bryan Norton: *Models as Languages: How Can Scientific Modeling Improve Environmental Policy Process?*

Denise Lach and Peter List: *Credibility and Advocacy of Environmental Scientists in Resource Decision Making: A Regional Survey*

## **Compliance and Enforcement, Part 3**

**Chair: Jon Sutinen**

Niels Vestergaard: *An Economic Incentive Scheme as a Solution to Compliance Problems Associated with Illegal Landings Within a TAC system*

S. Garcia-Martinez: *Sea Turtles of Bahia Magdalena, Baja California Sur, Mexico: Demand and Supply of an Endangered Species*

James R. Wilson: *The Bio-economics of Sea-turtle Conservation and Use by Local Communities in the State of Oaxaca, Mexico: History and Conservation Policies for Olive Ridley Sea Turtle (*Lepidochelys olivacea*)*

## **Biological, Environmental, and Social Processes, Part 1**

**Chair: Jeff Dambacher**

Howard T. Odum: *Energy Evaluation of a Fishery Water Management: Alternatives to Maximize a Regional Economy*

## **Ecology and Theology, Part 3**

**Organizer and Chair: Alistair McIlgorm**

Calvin B. DeWitt: *Case Study: Video Presentation: Eco-theology and Reefs*

Susan Power Bratton: *Fisheries Decline and Religious Response—a Comparison of Ireland and the Pacific Northwest, USA*

Wassim Ayoub: *Further Reflections in Islam*

Tuesday, July 11

## **Equity, Efficiency, and Communities, Part 1- Access, Equity, and Diversification**

**Organized by: Flaxen Conway**

Parvin Sultana: *Community Fishery Management Implications for Food Security and Livelihoods*

Christopher Bene: *Evaluating Livelihood Strategies and Role of Inland Fisheries in Rural*

*Development and Poverty Alleviation: The Case of the Yaere Floodplains in Northern Cameroon*

Marie-Therese Sarch: *Livelihood Diversification: Responses to Fluctuations in Africa's Inland Fisheries*

## **Capacity: Data Envelope Analysis, Part 1**

**Chair: Rolf Färe**

James E. Kirkley: *Data Envelopment Analysis (DEA): A Framework for Assessing Capacity in Fisheries When Data are Limited*

Sean Pascoe: *Physical Vs. Harvest Based Measures of Capacity: The Case of the UK Vessel Capacity Unit System*

Shawna Grosskopf: *Assessing Long-Run Fishing Capacity at the Industry Level and the Reallocation of Capacity*

## **Political Economy, Part 2**

**Chair: Nina Mollett**

William Schrank: *Bureaucracy, Politics, Economics: The Pathology of Fisheries*

Michael Healey: *Ludwig's Ratchet and the Collapse of New England Groundfish Stocks*

Frank Millerd: *The Evolution of Management Institutions for the British Columbia Salmon Fishery, 1900 to 1930*

## **Block B: 11:00-12:30**

### **Fish as a Competing Contributor to Food and Income in Developed Countries: Issues and Practical Approaches, Part 1**

**Organized by: Mahfuzuddin Ahmed and Christopher L. Delgado**

**Chair: Stephen Cunningham**

Mahfuzuddin Ahmed and Christopher L. Delgado: *Introduction to the Issues and Context of Rapid Changes in World Demand for Fish*

Fatima Ferdouse: *Developments in the International Seafood Market—A Review and Analysis of the Impact on the Developing Countries*

Christopher L. Delgado: *Issues in Modeling Fish to 2020 Within a Global Food Model*

Discussant:

Steve Cunningham

### **The Health Benefits of Seafood Consumption, Part 2**

**Chair: William F. Connor**

Rosemary Wander: *Do We Go Rancid After Eating Fish?*

Joyce Nettleton: *Communicating Health Messages About N-3FA*

Torbjørn Trondsen: *Patterns of Fish Consumption: The Influence of Health Related Factors. The Norwegian Women and Cancer Study (45-69 years)*



Tuesday, July 11

## **Capacity: Data Envelope Analysis, Part 2**

**Chair Rolf Färe**

Diane Dupont: *Privatization and Regulation of Capacity in a Multi-Product Fishery: A Purse From a Sow's Ear?*

John B. Walden: *Measuring Capacity of the New England Otter Trawl Fishing Fleet*

Niels Vestergaard: *Measuring Capacity and Capacity Utilization in Fisheries: The Case of the Danish Gill-net Fleet*

## **Trade, Growth, Natural Resources, and the Environment, Part 2**

**Chair: John Ward**

Chi-Chur Chao: *Environmental Impacts on Optimal Trade Policies*

Ali Emami: *Welfare Enhancing Trade and Production Policies for Recovering Free Trade Induced Welfare Losses in Trade of Renewable Natural Resource Goods*

## **Fishery Management and Producer Associations, Part 2**

All speakers continued from Part 1.

## **Chaos Theory and Other Non-linear Dynamics**

**Chair: Jon Hendricks**

Robert Burton: *Chaos Theory: An Introduction*

Jon Hendricks: *Chaos Theory and the Social Sciences*

Maria Lucia D'Apice Paez: *Innovation System in Public R&D Organizations in Agribusiness: New Institutional Economics (NIE), Sustainable Equilibria, and Chaos Theory*

## **Biological, Environmental, and Social Processes, Part 2**

**Chair: Jeffrey Dambacher**

Philippe Rossignol: *Qualitative Modeling: Theory and Practice*

Jeffrey Dambacher: *Qualitative Modeling of Multispecies Fisheries: Putting Humans Into the Equation*

Gabriela Montano: *Reconstructing Community Interactions in Sea Urchins Reserves*

Hiram Li: *Cultural vs. Ecological Values Governing Natural Resource Management: Lessons from Qualitative Food Webs*

## **Small Scale Fisheries and Fishery Development, Part 1**

James R. Wilson and Jean Boncoeur: *Micro-economic Efficiencies and Macro-economic Inefficiencies: Renewable Resources Policy in Very Poor Countries*

Carlisle A. Pemberton: *Open Access Fishing in a Fresh Water Swamp in Trinidad in the Caribbean*

Tuesday, July 11

## **Equity, Efficiency & Communities, Co-Management & Family/Community Part 2**

**Organized By: Flaxen Conway**

Ching-Ta Chuang: *Co-management and Labor Stickiness in Fishing Communities: Determination of the Optimal Number of Vessels*

Friday Jack Njaya: *The Challenges and Potential of Fisheries Co-management in Malawi: Case of Lake Malombe Participatory Fisheries Management Programme*

Flaxen Conway: *Change and Fishery Management: Impact, Communication and Fishing Communities*

## **Recreational Fisheries: Surveys and Allocation, Part 1**

**Chair: David Campbell**

David Campbell: *Australian National Recreational Fisheries Survey: Economic Data*

Brad Gentner: *Economic Data Collection for Marine Recreational Angling: the U.S. Approach*

Scott Williamson: *Contingent Valuation as a National Recreational Fishing Policy Tool in New Zealand*

## **Political Economy, Part 3**

**Chair: Bruce Weber**

Mariam McCall: *Legal Challenges to Highly Migratory Species Management Under Magnuson-Stevens*

Ola Flaaten and Paul Wallis: *Fisheries Management Costs: Concepts and Studies*

Erik Poole: *Income Subsidies and Incentives to Overfish*

## **Block C: 2:00-3:30**

### **Fish as a Competing Contributor to Food and Income in Developed Countries: Issues and Practical Approaches, Part 2**

**Chair: Stephen Cunningham**

Madan Mohan Dey: *Analysis of Demand for Fish by Species Group: Methodological Framework and Preliminary Estimates From Selected Asian Countries*

Madan Mohan Dey: *Production, Consumption and Accessibility of Aquaculture Products in Asia*

Somying Piumsombun: *Accessibility of Aquaculture Products in Thailand*

Pamela Jagger: *Potentials and Constraints for Aquaculture in Sub-Saharan Africa: The Case of Uganda*

Discussant:

Nik Mustapha Raja Abdullah

### **Fishery Economics: Dealing With Stock Uncertainty**

**Chair: Rognvaldur Hannesson**

Martin L. Weitzman: *Landing Fees vs. Harvest Quotas With Uncertain Fish Stocks*

Discussants:

Enrique Thomann

William Jaeger

Ragnar Arnason

Tuesday, July 11

## **Consumer Behavior: Food, Health, and Risk**

**Chair: John Edwards**

Paul Slovic: *Risk and Stigma*

Stephen Johnson: *The Effects of Information on People's Judgment of Risk and Benefit*

## **Indigenous Knowledge, Resource Management, and Research, Part 1**

**Chair: Kurt Peters**

Jesse Ford: *The Relevance of Indigenous Knowledge to Contemporary Sustainability*

William M. Alexander: *Place Located Indigenous Knowledge: Finding Value of Per Capita Earth Resource Consumption Necessary for Human Sustainability*

## **Biological, Environmental, and Social Processes, Part 3**

**Chair: Jeffrey Dambacher**

John Tschirhart: *Fisheries in a Complex Ecosystem*

Claire Montgomery: *Modeling Compatibility of Biological and Economic Objectives on a Forested Landscape*

Ussif Rashid Sumaila: *Biodiversity Conservation in a Game Theoretic Model of the Fishery*

## **Endangered Species: Steller Sea Lions and Alaska Pollock**

**Chair: Lewis Queirolo**

Andrew W. Trites: *Steller Sea Lions: A Window into Changes in the North Pacific Ecosystem*

Dayton L. Alverson: *Steller Sea Lions and the World Around Them*

Lewis Queirolo: *Endangered, Threatened and Protected Species: Challenges of Managing Living Marine Resources in an Internally Conflicted Regulatory Environment and the Opportunities They Present*

## **Rethinking Resource Management, Part 1**

**Chair: Carmel Finley**

Kathleen S. Carter: *The More Things Change: Oysters, Public Policy, and Species Decline in the Pamlico Sound, 1880-1900*

William G. Robbins: *Species Extinction and Cultural Arrogance: The Perils of Ignoring History*

Marie-Therese Sarch: *Fishing and Farming at Lake Chad: Institutions for Access to Natural Resources*

## **The Food Industry: Processing, Retailing, and the Institutional Market**

**Chair: Rod Moore**

Rod Moore: *Markets and Management: You Need to Know Both*

Jean Kinsey: *Retail Food Distribution: The Race to Efficiency*

Robert Honson: *Overview of School Foodservice Market*

## **Small Scale Fisheries and Fishery Development, Part 2**

**Chair: Stella Williams**

Razack Bakari Lokina: *An Economic Analysis to Sustainable Fisheries Management*

David Whitmarsh: *Economic Effects of Marine Protected Areas on Small-Scale Fisheries: a Case Study of the Trawl Ban in the Gulf of Castellammare, Sicily*

Tuesday, July 11

## **Equity, Efficiency, and Communities, Part 3: Case Studies of Co-Management, Effects on Industry, and Strategies to Work Together**

**Chair: Flaxen Conway**

Peter Panek: *The Introduction of Co-management: The Case of The British Columbia Prawn-By-Trap Fishery*

Guy Fontenelle: *Impact of State Management on the Logic of the Small-Scale Fisherman in Madagascar: Case of Ambara Bay*

Peter Britz: *Towards Equity, Sustainability and Stability: A Sector Planning Approach to Fishing and Mariculture Development in the Northern Cape Province, South Africa*

## **Capacity: Data Envelope Analysis and Stochastics**

**Chair: Rolf Färe**

Daniel Holland: *Factors That Influence the Accuracy of Estimates of Capacity and Capacity Utilization Derived From Data Envelopment Analysis*

S. Todd Lee: *The Impact of Noisy Catch Data on Estimates of Fishing Capacity Derived From DEA and Stochastic Frontier Models: A Monte Carlo Comparison*

Ronald G. Felthoven: *Measuring Fishing Capacity for Bering Sea and Aleutian Island Groundfish Fisheries*

## **Recreational Fisheries: Surveys and Allocation, Part 2**

**Chair: David Campbell**

Robert L. Hicks: *Approaches for Measuring the Economic Value and Impacts From Marine Recreational Angling: the U.S. Approach*

Chuck Hamel: *An Economic Discussion of the Marine Sport Fisheries in Lower Inlet*

Khem Sharma: *Economic Impacts of Catch Allocation From Commercial Fishery to Recreational Fishery in Hawaii*

## **Fishery Management: Case Studies, Part 1**

**Chair: Stanley Wang**

Anne Mullan: *California Salmon Harvest: Fleet Composition and Regulatory Regimes*

Christopher S. Wright: *Effect of Trap Soak-Time on the Selectivity Profile and By-kill in Prawn Trap Fisheries*

Wade L. Griffin: *An Economic Assessment of Gulf of Mexico Red Snapper Management Policies*

## **Block D: 4:00-5:30**

### **Food Safety and Risk: The HACCP Program**

**Chair: D.F. Farkas**

Amadou Tall: *Current Status of HACCP Application in Africa*

Frank F. Busta: *Evolution and Current Trends in HACCP and Risk Assessment*

Dan Farkas: *Use of High Pressure to Complement Seafood HACCP Programs*

Tuesday, July 11

## **Rethinking Resource Management, Part 2**

**Chair: Carmel Finley**

Carmel Finley and Hans Radtke: *Review of Columbia River Salmon Production Policies*

Chris Carter: *Public Hatchery Production of Salmon in Oregon: Does it Make any Economic Sense?*

Arthur McEvoy: *Autonomy, Participation, and Rule of Law Issues in Fisheries Management*

## **Salmon: Industry and Research Perspectives, Part 1**

**Chair: James Anderson**

Robert Ackman: *Misunderstandings About Fats in Promotion of Aquaculture Foods*

Joyce Nettleton: *Fatty Acids in Cultivated and Wild Fish*

Barbara Belknap: *New Research on the U.S. Salmon Market*

## **Indigenous Knowledge, Resource Management, and Research, Part 2**

**Chair: Kurt Peters**

Roberta Hall: *Taking Native Resource Use Seriously*

Sara Singleton: *Research Interactions With Indigenous Persons*

## **Functional Foods**

**Chair: Jimmy Young**

Daniel Selivonchick: *Functional Foods and Food Science*

George Constantine: *Bioactive Compounds From the Forest*

## **Biological, Environmental, and Social Processes, Part 4**

**Chair: Jeffrey Dambacher**

Matthias E. Hummel: *A Method of Analysis of Biological Resource Use Systems Under the Convention on Biological Diversity*

William Boggess: *The Oregon State of the Environment Report: An Overview of the Motivation, Purpose, Process, and Findings*

Alvin W. Smith: *Can the Ocean Make You Sick?*

## **Non-market Valuation: Issues and Approaches, Part 1**

**Chair: Mary Ahearn**

Robert P. Berrens: *Internet Versus Telephone in Contingent Valuation: Application to the Kyoto Protocol*

Stephen Johnson: *Research Surveys: A Structural Decision Process*

Brian Garber-Yonts: *Public Preferences for Conservation of Biological Diversity in the Oregon Coast Range*

## **Small Scale Fisheries and Fishery Development, Part 3**

**Chair: Hillary Egna**

O.O. Jinadu: *Economic Efficiency in the Coastal Small-Scale Fisheries in Lagos State, Nigeria*

Stella Williams: *Economic Potentials of Women in Small-scale Fisheries in West Africa*

Tuesday July 11/Wednesday, July 12

## **Efficiency and Production Relationships**

**Chair: Rolf Färe**

Haakan Eggert: *Technical Efficiency in the Swedish Trawl Fishery for Norway Lobster*

K. Kuperan Viswanathan: *Technical Efficiency and Fishing Skill In Developing Country Fisheries: The Kedah, Malaysia Trawl Fishery*

I. del Valle: *Estimating the Elasticity of Substitution Between Inputs Comprising Fishing Effort: An Application to the VIII Division European Fishery*

## **Social Capital: Communities and Fishery Management**

**Chair: Bruce Weber**

Jonathan Isham: *Can Investments in Social Capital Improve Well-Being in Fishing Communities? A Theoretical Perspective for Assessing the Policy Options*

Emery Castle: *Economic and Social Change in the Fishery*

A. Rodney Dobell: *Canadian Marine Fisheries in a Changing and Uncertain World*

## **Fishery Management: Case Studies, Part 2**

**Chair: Stanley Wang**

Roberto Enriquez-Andrade: *Perspectives for Rights-Based Fishery Management in Mexico*

Ruangrai Tokrisna: *Conflict in Fishery Resource Utilization: The Case of Light Luring Anchovy Fishery in Thailand*

Stanley Wang: *A Bio-economic Analysis of an Area Rotation Management Program in the US Atlantic Sea Scallop Fishery*

**Evening Activities: Dinner on your own or optional IIFET 2000 Avery Park family-style picnic**

**Wednesday, July 12**

**8:00-9:00: Onsite registration, small group meetings**

**Block A: 9:00-10:30**

## **Rethinking Resource Management, Part 3**

**Chair: Nina Mollett**

Christopher Corkett: *Fisheries Stock Assessment: An Inductive Science with the Logical Form of Primitive Magic*

Glen Spain: *Rethinking Fisheries Management*

Steve Scannell: *Market Quota System: The Ultimate in Public Resource Management*

Gregory Valatin: *On Demand-side Approaches to Solving the "Tragedy of High Prices" in Fisheries*

Wednesday, July 12

## **Property Rights: Design Lesson from Fisheries and Other Natural Resources, Part 1: System Complexities**

**Chair: Susan Hanna**

Steve Edwards: *An Elemental Basis of Property Rights to Marine Fishery Resources*

Anthony T. Charles: *Use Rights: Overview and Multi-Objective Analysis*

James A. Wilson: *Conservation Incentives in a Complex Fishery*

## **Small Scale Fisheries and Fishery Development, Part 4**

**Chair: Wade Griffin**

Foday Turay: *Restoration of the Collapsed State in Sierra Leone: Problems, Challenges and Prospects for Fisheries Management*

## **Markets, Trends, and Fishery Management**

**Chair: Pat Corcoran**

Larz Malony: *Fishery Management and the Marketing of Fish*

Gregg Small: *The Influence of Fisheries Regulation and Policy on Quality, Recovery, and Value*

## **Salmon: Industry and Research Perspectives, Part 2**

**Chair: Knut Heen**

Stewart Anderson: *Salmon Color and the Consumer “Eye Appeal is Buy Appeal”*

Anne McMullin: *Sustainability of the Farmed Salmon Industry, Its Policies and the Strategies Regarding Research and Development*

## **Natural Resources: Perspectives of Indigenous Peoples, Part 1**

**Chair: Judith Vergun**

Jody Calica: *Natural Resource Preservation and the Confederated Tribes of the Warm Springs Reservation*

## **The Costs of Fisheries Management, Part 1**

**Organized By: William Schrank**

**Chair: Giulio Pontecorvo**

Ragnar Arnason: *Cost of Fisheries Management: Theoretical and Practical Implications*

Sean Pascoe: *The Effects of Unilateral Cost Recovery in an International Fishery*

Ola Flaaten: *The OECD Study on Fisheries Management Costs—Outline of a Study*

## **Endangered Species: Columbia River Salmon, Part 1**

**Chair: R. Bruce Rettig**

Robert T. Lackey, *Policy Conundrum: Restoring Wild Salmon to the Pacific Northwest*

Wednesday, July 12

## **Nonmarket Valuation: Issues and Approaches, Part 2**

**Chair: Mary Ahearn**

Peter C. Boxall: *Incorporating Endogenous Perceptions of Environmental Attributes in Recreation Demand Models: The Case of Congestion*

G. Cornelis van Kooten: *Fuzzy Approaches to Measuring a Fuzzy Concept: An Alternative to Nonmarket Valuation*

Mary Ahearn: *Approaches to Valuing Landscapes*

## **Fishery Management: Effort Control and Buyback, Part 1**

**Chair: James Crutchfield**

Bruce Twomley: *Commercial Fishing License Limitation: A Controversial System of Grandfather Rights*

Phil Smith: *Federal Limited Access System in Alaska*

Dinty Mather: *Economic Organization and Transformation in the South African Squid Industry*

## **Generic vs Brand Promotion, Part 1**

**Chair: Walter Armbruster**

Joachim Scholderer: *Generic Advertising for Fish: Results From a Research-Based Campaign*

Walter Armbruster: *Generic Advertising for the Seafood Industry*

Henry W. Kinnucan: *Generic Versus 'Brand' Promotion: A Model With Application to International Trade*

Øystein Myrland: *Effects of Generic Advertising on Consumers' Attitudes, Revealed Preferences and At-home Consumption of Salmon in Germany*

## **Biological, Environmental, and Social Processes, Part 5**

**Chair: Jeffrey Dambacher**

Pierre Failler: *Sustainability Through Economics*

Courtland Smith: *Cultural and Natural Assets for Sustainability*

Ralf Doering: *Concepts of Sustainable Fisheries*

## **Block B: 11:00-12:30**

### **Reflections on Co-management, Consensus, and Conditions for Labor**

**Chair: Patrick Corcoran**

Steve Donda: *Journey to Sustainable Fisheries Management in Malawi: The Cases of Lakes Malombe and Chiuta*

Elizabeth Davis: *How Does the Local Labor Market Affect Job Outcomes of the Working Poor? Earnings, Job Stability and Upward Mobility*

Patrick Corcoran: *Watershed Councils and Their Struggles Toward Consensus*

### **What and How are We Measuring? Part 1**

**Chair: Gil Sylvia**

R.Q. Grafton: *Guidelines for the Economic Evaluation of Fisheries*

Anthony Cox: *Economic Performance Indicators for Fisheries*

Ross Cullen: *Selection of Mechanisms to Achieve Internalization of Fishing Externalities*



Wednesday, July 12

## **Property Rights, Part 2: In the Wake of IFQs**

**Chair: Susan Hanna**

Christopher M. Dewees: *New Zealand's Quota Management System: Changes in the Auckland Fishing Community Through the First 14 Years*

Sevaly Sen: *Property Rights in ITQ fisheries: fact or fiction?*

Thorolfur Matthiasson: *Changing the Rules for Regulation of Icelandic Fisheries*

Gunnar Knapp: *Attitudes of Alaska Halibut Fishermen Toward IFQ Management*

## **The Food Industry**

**Chair: David Lakey**

Panel Discussion:

Herb Ashkenasy

Pam Lund

Lynn Wilson

Harry Forsberg

William Woods, Jr.

Craig Smith

## **Aquaculture and Mariculture Production Issues, Part 1**

**Chair: Ron Fleming**

Bill Gerwick: *Seaweeds: A Rich Source of Products Useful to Aquaculture, Medicine, and Biomedical Research*

David Zilberman: *An Economic Analysis of Algoculture*

## **Natural Resources: Perspectives of Indigenous Peoples, Part 2**

**Chair: Judith Vergun**

Judith Vergun: *The Effects of Uplands Management on Riverine Systems*

Frank Lake: *Management of Marine and Riverine Fishery Resources in the Pacific Northwest by Indigenous People*

## **The Costs of Fisheries Management, Part 2**

**Organized By: William Schrank**

**Chair: John Gates**

Rognvaldur Hannesson: *Management and Enforcement Costs in Norway's Fisheries*

William E. Schrank: *The Cost of Marine Fishery Management in Eastern Canada: Newfoundland, 1989/90 to 1997/98*

Ragnar Arnason: *Government Expenditures on Fisheries and Fisheries Management in Iceland*

## **Endangered Species: Columbia River Salmon, Part 2**

**Chair: R. Bruce Rettig**

Daniel Huppert: *Role of Economic Analysis in Columbia River Salmon Decisions*

Shep Buchanan: *Power, Fish and the Greenhouse on the Columbia River*

Emery Castle: *Economic and Social Change in the Fishery: Institutions and Structure*

Wednesday, July 12

## **Nonmarket Valuation: Recreational Fisheries, Part 1**

**Chair: Stephen Beare**

Daniel McFadden: *The Travel Cost Method for Valuing Recreational Fishing — Issues of Sampling, Estimation and WTP for Site Improvements*

Diane Dupont: *Gender Differences in Nonmarket Benefit Estimates: Potential for Biases in Aggregate Values*

Frank Lupi: *Modeling the Demand for Recreational Fishing in Michigan*

Edi Defrancesco: *Recreation Management in the Venice Lagoon: Methodological Aspects and Empirical Evaluation*

## **Biological, Environmental, and Social Processes, Part 6**

**Chair: Jeffrey Dambacher**

Matt Hoffman: *Micro Behavior and Macro Landcover Change: Simulating Deforestation and Reforestation in Indiana Over Two Centuries*

Alfons Balmann: *Modelling Land Use With Multi-agent Systems—Perspectives for the Analysis of Agricultural and Environmental Policies*

JunJie Wu: *The Economics of Conservation Targeting Strategies*

## **Fishery Management: Effort Control and Buyback, Part 2**

**Chair: James Crutchfield**

Stephen Cunningham: *Fishery Management in the Mediterranean: An Evaluation of Effort-Based Management Systems*

Olivier Guyader: *Economic Analysis of the Impact of Buyback and the Role of Financial Incentive Schemes: Application to the French Fishery Sector*

Anne M. Wakeford: *Fisheries Buybacks, An Appropriate Solution to Conservation?*

## **Block C: 2:00-3:30**

### **Trees, Water, and Fish**

**Chair: K. Norman Johnson**

K. Norman Johnson: *CLAMS: The Coastal Landscape and Modeling Study*

## **Natural Resources: Perspectives of Indigenous Peoples, Part 3**

**Chair: Judith Vergun**

Tom Mexsis Happynook: *Cultural Biodiversity: Indigenous Relationships with Their Environment*

Helen Redbird-Smith: *Taking the Pulse of the Universe*

Allison Davis-White Eyes: *Sacred Sites, Sacred Land: A Native Perspective.*

## **Food Attributes: Consumer and Producer Perspectives, Part 1**

**Chair: Scott Miller**

Jean Pierre Boude: *Quality Initiatives, Fishermen's Income and Fishing Strategy*

Perry Smith: *Quality/Price Relationships on the Sydney Fish Market*

Asmo Honkanen: *Future Threats and Opportunities in Finnish Fisheries: A Study to Build up a Regular Follow-up Data Collection*

Wednesday, July 12

## **Property Rights, Part 3: Building Flexibility into Property Rights Systems**

**Chair: Susan Hanna**

James D. Hastie: *Permit Stacking as an Approach to Implementing Harvest Rights That Can be Transferred and Accumulated*

Mariam McCall: *Property Rights in Atlantic HMS Management*

James Sanchirico: *Individual Transferable Quotas and Bycatch Management: Preliminary Evidence from the New Zealand Experience*

## **Industry Development, Innovations, and Product Forms**

**Chair: Howard Johnson**

Herbert Ashkenasy: *Freeze-dried Product: The Process and the Markets*

Howard Johnson: *Retail Seafood: a New Paradigm*

David Lancaster: *Electronic Commerce in the Seafood Industry*

## **Aquaculture and Mariculture Production Issues, Part 2**

**Chair: Ronald A. Fleming**

Ronald A. Fleming: *An Economic Evaluation of Commercial Paddlefish (*Polyodon spathula*) Production*

Atle G. Guttormsen: *Input Factors Substitutability in Salmon Farming*

Diego Valderrama: *A Risk Programming Model for Shrimp Farming in Honduras*

## **Why Not Merge the Social Sciences? Part 1**

**Chair: Courtland Smith**

### **Panel Discussion**

Roberta Hall

B. Curtis Eaton

John Edwards

Ronald Mitchell

## **The Costs of Fisheries Management, Part 3**

**Organized By: William Schrank**

**Chair: Walter Keithly, Jr.**

Ragnar Arnason: *Cost of Fisheries Management: The Case of Iceland, Norway and Newfoundland*

Vilhjlmur Wium: *Fishery Management Costs: The Case of Namibia*

Somying Piomsombun and Rolf Willman: *Fisheries Management Costs in Thai Marine Fisheries*

## **Nonmarket Valuation: Recreational Fisheries, Part 2**

All speakers continued from Part 1.

Wednesday, July 12

## **What and How are We Measuring? Part 2**

**Chair: Gil Sylvia**

Michael Haby: *Developing An Economic Profile of Texas Shrimp Fishing Operations in the Gulf of Mexico*

Noel Taylor-Moore: *The Business of Fishing in Queensland, Australia*

Patricia Koss: *Designing and Operating Fish and Wildlife Programs in an Environment of Uncertainty*

## **Ex-vessel Price Determination, Part 1**

**Chair: Jim Anderson**

Barbara Stevenson: *Portland's Auction Success*

Claire W. Armstrong: *Auctions and the First-hand Sale of Fish*

## **Fishery Management: Dealing with Bycatch**

**Chair: James Crutchfield**

Yong Suhk Wui: *An Economic Analysis of New Bycatch-Reduction Policies for the Gulf of Mexico Shrimp Fishery*

Vicki Hoover Krutzikowsky: *Finfish Bycatch Effects on Quality of Ocean Shrimp, Pandalus Jordani*

## **Block D: 4:00-5:30**

### **Food Attributes: Consumer and Producer Perspectives, Part 2**

**Chair: Scott Miller**

Elizabeth Greene: *Using Marketing Management Analysis to Develop Quality Control Systems for Pacific Whiting and Albacore Tuna*

Stephen Crutchfield: *Labeling Genetically Modified Foods: An Economic Proposal*

Ted Evans: *Seafood Inspection and Quality Audits as a Way of Doing Business in International Seafood Trade*

### **Property Rights, Part 4: The Social Context of Fisheries Management**

**Chair: Susan Hanna**

Torbjorn Trondsen: *Market Orientation in Fisheries Management*

Michael Healey: *Paradox of Fairness: The Impact of Escalating Complexity on Fishery Management*

Parzival Copes: *Challenging ITQs: Legal and Political Action in Iceland, Canada and Chile*

Robin Alden: *Apprenticeship and Conservation Incentives*

### **Seafood Markets and Fishery Management: International Dimensions**

**Chair: James Anderson**

Mark Soboil: *Impact of Fishery Enhancement Subsidies on International Trade and Fisheries*

Rene Cerda-D'amico: *Foreign Trade of the Swordfish Landed in Chile*

Wednesday, July 12

## **Industry Sourcing Panel**

**Chair: Ray Cesca**

Ray Cesca

William Woods, Jr.

Justin LeBlanc

## **Why Not Merge the Social Sciences? Part 2**

**Chair: Courtland Smith**

Panel discussion continued from Part 1.

## **Aquaculture and Mariculture Production Issues, Part 3**

**Chair: Ron Fleming**

Ruamporn Sirirattrakul: *Dramatic Development of Shrimp Culture in Asian Countries*

Mucaï Muchiri: *Break Even Prices and Investment Costs Under Different Loan Schemes for Small-Scale Fish Farmers in Kenya*

## **Valuing Indigenous Rights, Part 1**

**Chair: David Campbell**

David Campbell: *Valuing Indigenous Rights: Concepts and Methods*

Peter C. Boxall: *Indigenous Values*

Randall Bess: *Maori Claims to Fisheries Resources*

## **Bioeconomic Modeling, Part 1**

**Chair: Trond Bjorndal**

Michael Harte: *Time Preferences of Fishers and the Optimal Harvest of Fisheries Resources*

Martin D. Smith: *Optimal Fisheries Management Over Space: An Endangered Predator and Harvestable Prey Model*

Rognvaldur Hannesson: *A Note on ITQs and Optimal Investment*

## **The Costs of Fisheries Management, Part 4**

**Organized By: William Schrank**

**Chair: Parzival Copes**

Anthony Cox: *Cost Recovery in Fisheries Management: The Australian Experience*

Nick Wyatt: *Cost Recovery and Fisheries Management in New Zealand*

Jon Sutinen: *A Summing Up — What Have We Learned; Where Do We Go From Here*

## **Columbia River Pastoral Letter Project**

**Chair: Frank Fromherz**

Frank Fromherz: *The Columbia River Watershed: Notes on a Pastoral Letter Emerging*

Irene Martin: *Summary of Remarks on the Columbia River Pastoral Letter*

Steven Kolmes: *Remarks*

Wednesday, July 12

## **Economic and Social Effects of Environmental Perturbations, Part 1**

**Organizer: John Gates**

Gary D. Sharp: *Climate and Fisheries: Costs and Benefits of Change*

Tsuyoshi Kawasaki: *Global Warming Could Have a Tremendous Effect on the World Fisheries Production*

Gunnar Knapp: *Implications of Climate Change for Fisheries Management*

## **What and How are We Measuring? Part 3**

**Chair: Gil Sylvia**

Patty Clayton: *Using Fishermen's Expertise to Improve Fisheries Management*

Elizabeth Mitchell: *The Cost of Eating Fish: Funding and Implementation of Observer Programs in Domestic and High Seas Fisheries*

John Harms: *The Economics of Cooperative Fishery Research: A Survey of U.S. West Coast Groundfish Industry and Scientists*

Chuck Hamel: *Fish Harvesting Employment Data Collection*

## **Ex-vessel Price Determination, Part 2**

**Chair: Christopher Wright**

Thorolfur Matthiasson: *Ex-vessel Price Formation in Iceland*

Perry Smith: *Price Formation on the Sydney Fish Market*

Shekar Bose: *An Empirical Investigation of Price-quantity Relations of the Quota Species of Australia's South-East Fishery*

**Evening Activities: Dinner on your own, optional IIFET 2000 Gourmet Winery Picnic, or "Walk in the Woods" Forestry Fish Conservation Activities Walk and Picnic.**

**7:30 - Native American Films at LaSells-Stewart Center by Makah filmmaker Sandra Osawa: "Usual and Accustomed Places" and "On and Off the Res' With Charlie Hill." Free and open to the public.**

Thursday, July 13

8:00-9:00: on-site registration, small group meetings

**Block A: 9:00-10:30**

**Property Rights, Part 5: Co-management/Self Management**

**Chair: Susan Hanna**

Olivier Thebaud: *The Economics of Fisheries Self-regulation: Analytical Issues and a Historical Case Study*

Janne Hukkinen: *Scenarios of Self-organizing Institutional Design for Environmental Management in Upper Lapland, Finland*

Pekka Salmi: *Private Water Ownership and Fisheries Governance in Finland*

Kuperan Viswanathan: *Welfare Impacts and Transaction Costs of Fisheries Co-Management at Oxbow Lake (Baor) in Bangladesh*

**Food Attributes: Consumer and Producer Perspectives, Part 3**

**Chair: Maria Paez**

Catherine Mariojouis: *Analysis of French Demand for Oysters and Mussels Within European Market*

**Economic and Social Effects of Environmental Perturbations, Part 2**

**Organizer: John Gates**

Giulio Pontecorvo: *Economic Effects of Environmental Fluctuations in the Anchoveta Fisheries of Chile and Peru*

Jung-Hee Cho: *Environmental Factors and Natural Resource Stocks: The Atlantic Herring Case*

Stephen Polasky: *Renewable Resource Management with Environmental Prediction*

**Ecolabeling, Part 1**

**Chair: Cathy Wessells**

Holger Donath: *Consumer Preferences for Ecolabeled Seafood. A Comparison of Consumers in the US and Norway*

Jonathan Peacey: *The Marine Stewardship Council Fisheries Certification Program: Progress and Challenges*

S. Jaffry: *Consumer Choice for Quality and Sustainability in Seafood Products: Empirical Findings From Europe*

James A. Young: *The European Consumer's Understanding and Perceptions of Organic Salmon Production*

Ragnar Tveteras: *Demand for Organic Salmon in the European Union*

**Seafood Markets and Fishery Management: Conceptual and Empirical Issues, Part 1**

**Chair: Ken Roberts**

Daniel Georgianna: *The Effect of Reduced Landings on Fresh Fish Processing in New England*

Charmaine Gallagher: *An Integrated Bioeconomic Model of the Oregon Pink Shrimp Fishery*

Patricia Koss: *Reciprocal Exposure and Holdup in Fisheries: Implications for Fishery Management Policy*

Thursday, July 13

## **Aquaculture and Mariculture Production Issues, Part 4**

**Chair: Ron Fleming**

Ragnar Tveteras: *Technical Change and Productive Inefficiency Change in Norwegian Salmon Farming: The Influence of Regional Agglomeration Externalities*

## **Bioeconomic Modeling, Part 2**

**Chair: Trond Bjørndal**

Stephen Beare: *Access Management Using Real Time Catch Data in the Northern Prawn Fishery: An Application of Stochastic Control Rules*

Simon Mardle: *The Determination and Use of Objective Preferences in a Given Fisheries Bioeconomic Modelling Framework*

Kjetil Helstad: *Management of Herring, Capelin and Cod in the Greater Barents Sea Economic Optimal Management From a Norwegian Viewpoint*

## **Fisheries and Trade: Industry and Government Perspectives, Part 1**

**Chair: Greg Schneider**

Erhard Ruckes: *Evolution of The International Regulatory Framework Governing International Trade in Fishery Products*

William Emerson: *The Trade Distorting Effect of Subsidies*

Greg Schneider: *Current Debate Over Potential Use of Trade Measures*

Fawzi A. Taha: *Japan's Declining Fish Catch Raises Trade Prospects*

Richard Schulberg: *Sustainable Development and Trade*

William Woods, Jr. (Panel Discussant): *An Industry Perspective*

## **Price Analysis and Demand Estimation, Part 1**

**Chair: Scott Matulich**

Terje Vassdal: *Regime Shifts in the International White Fish Markets: The Case of Alaska Pollock as a New Entrant*

Minoru Tada: *Japanese Fish Demand and the Price Linkage with Foreign Markets*

## **Innovations in Fishery Management: Sustainable Mandates—Devolving Institutions, Part 1**

**Organized By: Gil Sylvia**

Anthony Scott: *Five Stages in the Evolution of the Market-Oriented Fishery*

John Goodlad: *UK Fisheries Management—The Shetland Experience*

Michael Arbuckle: *New Zealand Fisheries Under the Quota Management System*

George Kallis: *Vessel Reduction/Gear Changes and Stock Enhancement*

## **Valuing Indigenous Rights, Part 2**

**Chair: David Campbell**

Tony Wright: *The Economics of Subsistence Fishing in Eastern Canada: Striking a Balance Between Aboriginal Claims and the Implication of First Nations in the General Economy*

David C. Natcher: *Arriving at Appropriate Criteria and Indicators for Sustainable Forest Management: A First Nation's Perspective*



Thursday, July 13

## **Collaboration Among Industry, Government and Education Partners**

### **Workshop Coordinators:**

Lynn Wilson

Pam Lund

### **Block B: 11:00-12:30**

#### **Ecolabeling, Part 2**

All speakers continued from Part 1.

#### **Property Rights: States and Other Interests**

**Chair: Susan Hanna**

R. Quentin Grafton: *Property Rights for Fisheries*

Sara Singleton: *Commons Problems, Collective Action and Efficiency in Past and Present Institutions of Governance in PNW Salmon Fisheries*

Tadashi Yamamoto: *Why Fishery Community-based Fishery Management (FCFM) has been Well Developed In Japan—Legal Framework is indispensable for the Development of FCFM*

Eric J. Ziegelmayer: *Ocean Limits: Commoditization and the Crisis of the Fishery*

#### **Seafood Markets and Fishery Management: Conceptual and Empirical Issues, Part 2**

**Chair: Ken Roberts**

Quentin S. W. Fong: *From Shark Fin Markets to Shark Populations: An Integrated Market Preference - Cohort Analysis of the Blacktip Shark (Carcharhinus Limbatus)*

Josué Martínez-Garmendia: *Incorporating Market Information in the Management of the US North Atlantic Bluefin Tuna*

James E. Wilen: *Markets and Rent Dissipation Under Regulated Open Access*

#### **Direct Marketing**

Michael Washburn: *Direct Marketing of Seafood: A Fisherman's Perspective*

Cory Schreiber: *Perspectives from the Food Service Industry*

Harry Daughters: *Perspectives from Seafood Retailing*

#### **Aquaculture: Incentives to Adopt and Impacts on Communities, Part 1**

**Chair: Salvador Garcia-Martinez**

Masudul Hoq Chowdhury: *Increasing Efficiency of Pond Fish Production in Rural Bangladesh*

Paul M. Thompson: *Impacts of Aquaculture Extension on Pond Operators and the Rural Community*

Ruben C. Sevilleja: *Adoption and Economics of Tilapia Farming Technology in the Philippines*

#### **Fisheries and Trade: Industry and Government Perspectives, Part 2**

All speakers continued from Part 1.

Thursday, July 13

## **Fishing Behavior and Institutions, Part 1**

**Chair: James R. Wilson**

Bertrand Le Gallic: *Differences of Profitability Within a Multi-species Multi-gear Fishery: How Much is Explained by Barriers to Entry?*

Martin D. Smith: *Two Econometric Approaches to Simulate Spatial Management of a Commercial Fishery*

## **Subsistence Whaling, Part 1**

**Organized by: Mark Herrmann**

Tom Albert: *Critical Contributions, by Eskimo Hunters in Alaska, to Studies of Spring Migrating Bowhead Whales (Balaena Mysticetus)*

Tom Mexsis Happynook: *The Social, Cultural and Economic Importance of "Subsistence Whaling"*

Sandra Osawa: *The Historical Background of the Current Makah Whaling Controversy*

## **Price Analysis and Demand Estimation, Part 2**

**Chair: Scott Matulich**

Hwang-Jaw Lee: *Consumer Demand for Seafood in Taiwan*

Joaquin A. Millan: *Interdependent Preferences for Seafood Consumption*

Jack Houston: *Factors Affecting Consumer Preferences for Shrimp in Taiwan*

## **Innovations in Fishery Management: Sustainable Mandates--Devolving Institutions, Part 2**

**Organized By: Gil Sylvia**

Tom McClurg: *Cost Recovery*

Michael Harte: *Industry-led Research*

Tony Craig: *Devolution of Fisheries Management Functions in New Zealand*

## **Bioeconomic Modeling, Part 3**

**Chair: Trond Bjorndal**

Micki Stewart: *Analysis of the Impacts of Marine Reserves in the Galapagos Islands*

Duncan Knowler: *Nutrient Enrichment and Marine Ecosystem Disturbance: A Deterministic and Stochastic Analysis of the Black Sea*

Lee G. Anderson: *A Bioeconomic Analysis of Marine Reserves*

## **Asset Markets, Options and Green Accounting, Part 1**

**Chair: Ellen Burnes**

Eyjolfur Gudmundsson: *Asset Pricing, Derivatives and Futures Trading for Harvesting Rights to Renewable Resources*

Ellen Burnes: *The Value of Investment Hedging With Resource Reserve*

Atle G. Guttormsen: *Optimal Rotation Time in Fish Farming*

Arantza Murillas: *Investment and Development of Fishing Resources: A Real Option Approach*

Robert D. Cairns: *Green Accounting for a Commercial Fishery*

Asgeir Danielsson: *Environmental National Accounting for Commercially Exploited Fishstocks*

Thursday, July 13

**Block C: 2:00-3:30**

**Seafood Markets and Fishery Management: Conceptual and Empirical Issues, Part 3**

**Chair: Chris Delgado**

Michelle James: *Industry Perspective on the Effect of Fisheries Management on Seafood Markets: The B.C. Geoduck Example*

Yoshiaki Matsuda: *History of Fish Marketing and Trade With Particular Reference to Japan*

Haruko Yamashita: *Problems of Export-Oriented Yellowfin Tuna Industry—Indonesia and the Philippines*

**Fishing Behavior and Institutions, Part 2**

**Chair: James R. Wilson**

David B. Sampson: *Fishing Strategies and Fishing Success: An Empirical Analysis Based on Trawl Logbooks*

Sean Pascoe: *Economic Performance of Fishers: Stochastic or Chaotic?*

**Aquaculture: Incentives to Adopt and Impacts on Communities, Part 2**

**Chair: Salvador Garcia-Martinez**

Mathias W. Wafula, *Socio-economic Impact of Aquaculture Support Programmes on the Communities in the Lake Victoria Basin of Kenya*

Eunice Perez Sanchez, *Aquaculture Impacts in the Socio-economics of the Coastal Communities of Tabasco, Mexico*

**Subsistence Whaling, Part 2**

**Organized by: Mark Herrmann**

William Aron: *The International Whaling Commission—A History of Malignant Neglect*

Milton Freeman: *Sustained Ambiguity as a Management Device in the International Regulation of Whaling*

**Price Analysis and Demand Estimation, Part 3**

**Chair: Peder Andersen**

Diane F. Primont: *On the Construction of Price Indexes*

Jeffrey T. LaFrance: *U.S. Income Distribution and Gorman Engel Curves for Food*

Frank Asche: *Is Salmon a Substitute for Whitefish?*

Jessica Hartmann: *Price Relationships Along the Value Chain: An Analysis of Hake Markets in France and Spain*

**Innovations in Fishery Management: Sustainable Mandates—Devolving Institutions, Part 3**

**Organized By: Gil Sylvia**

Rene Cerda-D'amico: *Individual Transferable Share Quotas in Chilean Fisheries*

Heather McCarty: *Using Tax Incentives to Fund Industry Based Research*

Paul Starr: *Self-monitoring of Catch and Effort and Experimental Increases in Catch Limits*

John R. Gauvin: *Use of a Halibut Excluder Device in the Flatfish Trawl Fisheries of the Eastern Bering Sea: Evaluating Incentives for Bycatch Reduction in Commons Fisheries*

Thursday, July 13

## **Fishery Economics: From *Homo Economicus* to *Homo Sapiens*?**

**Chair: Tony Charles**

Panel Discussion

James A. Wilson

Bruce Rettig

Philip Neher

## **Collaboration: Science and Industry**

**Chair: Catherine Durham**

Roy G. Arnold: *University/Food Industry Partnerships for Human Resource Development and Technology Transfer*

Catherine Durham: *The Oregon State University Food Innovation Center*

James E. Kirkley: *Capacity Measures: Industry Uses of State-of-the-Art Research*

## **Asset Markets, Options and Green Accounting, Part 2**

All speakers continued from Part 1.

## **Bioeconomic Modeling, Part 4**

**Chair: Trond Bjorndal**

Daniel V. Gordon: *Evaluation of Alternative Management Strategies for the Norwegian Spring-Spawning Herring Fishery: A Bio-Economic Simulation Model*

Paul Hillis: *A Regional Management Model of Fisheries in the Irish Sea*

Luca Rossetto: *The Management of Fishery in Venice Lagoon*

Deqin Cai: *An Extension of the Classified Estimates of Dredge Efficiency and Animal Stock and Abundance and Its Application to Sea Scallop Fishery in Georges Bank*

## **Trees, Water and Fish, Part 2**

**Chair: John Sessions**

John Sessions: *Saving the Fish, While Providing Economic Benefits*

Benno Warkenton: *Changes in Decision-Making in Diffuse Water Pollution Control*

## **Block D: 4:00-5:30 Concluding Sessions**

### **Rethinking Microbehavior and Macroresults and IIFET: Future Directions**

**Chair: Richard Johnston**

Discussants:

Parzival Copes

James Anderson

Ola Flaaten

Presentation of IIFET 2002 Proposal

## **Innovations in Fishery Management: Sustainable Mandates—Devolving Institutions, Part 4: What Have We Learned?**

**Chair: Gil Sylvia**

## **Evening Activities: Closing Banquet Dinner and Entertainment**

Friday, July 14

## Special Session: The History of the West Coast Fishing Industry

Chair: Barry Fisher

### Period 1: 9:00-10:30

Joe Easley: *History of Trawling Off the Pacific Coast*

Barry Fisher: *The Groundfish Sector Just Before and Just After the Magnuson Act: Structural Changes in the Fleet, How it Fishes and What it Catches; Some East Coast — West Coast Comparisons*

Ralph Brown: *Fishing under the Federal Management Structure: the Mid 1980s to the Present*  
Discussion

### Period 2: 11:00-12:30

Susan Hanna: *Setting the Fishery Management Stage: Evolution of West Coast Groundfish Management*

Jim Branson: *The Alaska Fisheries and Their Management: Pre-Statehood, under State Management and Post-Magnuson Act*

Bob Schoning: *Over Fifty Years of Government Fisheries Service, Then and Now: State, Federal and International Levels*

Clinton Atkinson: *A Review of Fisheries Research in the Pacific Area*  
Discussion

### Period 3: 2:00-3:30

John McGowan: *The History of Fish Processing, Especially Canning of Alaska, Washington and Oregon Salmon and Tuna*

Paul Heikkila: *Ninety Years of Salmon Trolling*

Lee Wiegardt: *The History of West Coast Oyster Production, Processing and Marketing*

Nick Furman: *The Dungeness Crab Fishery: A Historical Perspective*  
Discussion

### Period 4: 4:00-5:30

Glen Spain: *Charting a Path Through an Uncertain Future: Lessons from Our History*

Zeke Grader: *History of Seafood Processing in California and Oregon*

Christopher DeWees: *The California Fisheries: an Historical Perspective, with Particular Reference to Harvesting in Central and Southern California*

General Discussion

Reception, 5:30-6:30, Courtesy of Coastal Oregon Marine Experiment Station