Open Ocean Aquaculture ’97
Program
SECOND INTERNATIONAL CONFERENCE
ON OPEN OCEAN AQUACULTURE

APRIL 23-25, 1997
MAUI, HAWAII

WEDNESDAY, APRIL 23

7:30 - 8:30 a.m.  Continental Breakfast and Registration
(Plumeria Room)

8:30 - 9:00 a.m.  OPENING SESSION (Maile Room)
Charles E. Helsley: Overview &
Introduction
Senator Daniel Akaka: Welcoming
address

9:00 - 9:30 a.m.  Governor Benjamin Cayetano:
Proclamation of Open Ocean Aquaculture
Day
Mayor Linda Lingle, Maui County:
Welcome
Remarks by Sponsors

9:30 - 10:00 a.m.  James McVey: Overview and Future
Directions for the National Sea Grant
Aquaculture Program

10:00 - 10:15 a.m.  Morning Break

10:15 a.m. - 12:15 p.m.  SESSION 1 (Moderator - James
Sullivan)
Michael Champ: Global Review of
Ocean Technologies for Open Ocean
Aquaculture
Michael Markels, Jr.: Farming the
Ocean
10:15 a.m. - 12:15 p.m. **Clyde Tamaru** and **C. Carlstrom-Trick**: Aquaculture in Hawaii - Lessons from the Past

**Paul Jokiel, D. Sarver,** and **N. Sims**: Open Ocean Culture of Hawaiian Black Lip Pearl Oyster (*Pinctada margaritifera*)

12:15 - 1:30 p.m. Luncheon Speaker - **John Craven**: The Open Ocean Aquaculture of Humans as Marine Mammals

1:30 - 3:00 p.m. SESSION 2 (Moderator - **James McVey**)

**Michael De Alessi**: Marine Tenure

**Peter Petrusevics** and **S. Clarke**: Optimization of Southern Bluefin Tuna Resource in Semi-Open Ocean Farming, Boston Bay, S. Australia, Using Numerical Simulation

**Gary Loverich, N. Best, C. Goudey,** and **N. Hahn**: Discussions of the Predicted Performance of the Ocean Spar Sea Station Based Upon Large Model Tests in a Sea Keeping Basin

3:00 - 3:30 p.m. Afternoon Break

3:30 - 6:00 p.m. SESSION 3 (Moderator - **William Rickards**)

**Mark Drawbridge**: The White Seabass (*Atractoscion nobilis*) as a Candidate Species for Open Ocean Culture: a Review Based on Four Years of Culture in Nearshore Cages

**Daniel Margulies, V. Scholey, A. Nakazawa, R. Olson, J. Wexler,** and **J. Suter**: Development of a Spawning Population of Yellowfin Tuna (*Thunnus albacares*) in Landbased Tanks in Panama
3:30 - 6:00 p.m.  
David Condron and E. Powell: A Deep-Water Mooring Concept for Open-Ocean Aquaculture

Godfrey Savage, J. Howell, B. Celikkol, and R. Barnaby: Results of 18 Month Open Ocean Codfish Aquaculture Demonstration Project

6:00 - 8:00 p.m.  
POSTER SESSION AND BEER & PUPUS (that’s Hawaiian for appetizers)  
(Jade and Plumeria Rooms)

German Merino: Considerations for Culture Design Systems for Scallop Production

Peter Petrusevics: Ocean Cage Tuna Farming in Spencer Gulf, South Australia

Daniel Margulies: Video of Spawning Population of Yellowfin Tuna (Thunnus albacares) in Land Based Tanks in Panama

THURSDAY, APRIL 24

7:30 - 8:00 a.m.  
Continental Breakfast (Plumeria Room)

8:00 - 10:00 a.m.  
SESSION 4 (Moderator - Michael Hightower) (Maile Room)

John Corbin and L. Young: Ocean Leasing in Hawaii: Origins, Status and Future Prospects

John Bonardelli and M. Levesque: Economics of Longline Technology in Offshore and Drift-Ice Environments: How to Make or Lose Money

Henri Gignoux, L.D. Thompson, and R.H. Messier: Computational Model of Aquaculture Finfish Net-Pens
8:00 - 10:00 a.m.  **Tohru Morikawa**: Current Development of Open Ocean Aquaculture in Japan

10:00 - 10:30 a.m.  Morning Break

10:30 a.m. - 12:30 p.m.  SESSION 5 (Moderator - **John Corbin**)

**Leonid Bugrov**: Biological and Engineering Aspects of Underwater Fish Farming Technology in Open Sea Areas

**Michael Gosz, K. Kestler, R. Swift, and B. Celikkol**: Finite Element Modeling of Aquaculture Net-Pen Systems

**Anne Hayden**: Aquaculture on the High Seas: Who Will Be Watching?

**Neville Thomson**: The Australasian Offshore Shellfish Longline Experience

12:30 - 1:30 p.m.  Luncheon (no luncheon speaker)

1:30 - 3:00 p.m.  SESSION 6 (Moderator - **Neville Thomson**)

**Ljudmila Bougrova, S. Matveev, and L. Bugrov**: Pelagic and Bottom Versions of SADCO Underwater Cages - Experiences and Latest Developments

**Michael Chambers**: Potential Offshore Cage Culture Utilizing Oil and Gas Platforms in the Gulf of Mexico

**Takashi Kano, K. Torii, and H. Kawamoto**: A Design of Flexible Submerging Artificial Fishing Reef

3:00 - 3:30 p.m.  Afternoon Break

3:30 - 5:00 p.m.  SESSION 7 (Moderator - **Anthony Ostrowski**)

**John Ericsson**: Permitting Difficulties and Procedures for Establishing Open Water Mariculture in U.S. Federal Waters
3:30 - 5:00 p.m.  
**Leonard Young** and **J. Corbin**: Selecting Nearshore and Open Ocean Mariculture Technologies for the Hawaii Environment

**Richard Taylor**: Early Sea Scallop Growout Studies in the Gulf of Maine

**John Ericsson**: Sea Star Oyster Relay Systems: a Solution for Pollution of Oysters

5:00 - 8:00 p.m.  
Hawaiian Style Luau and Polynesian Entertainment

**FRIDAY, APRIL 25**

7:30 - 8:00 a.m.  
Continental Breakfast (*Plumeria Room*)

8:00 - 10:00 a.m.  
SESSION 8 (Moderator - **Rollie Barnaby**) (*Maile Room*)

**Gary Loverich** and **L.R. Gace**: The Effect of Currents and Waves on Several Design Classes of Offshore Sea Farming Cage

**Takashi Kano, H. Yamakawa, K. Torii, and T. Abe**: A Field Study on Artificial Reef for Exploitation of Algae Plantation

**Joseph McElwee**: Practical Experiences in Rearing Fish in Offshore Cages in Ireland, The Good, The Bad and the Ugly!

**Clark Liu**: Open Ocean Aquaculture with Nutrient-Rich Deep Ocean Water

10:00 - 10:30 a.m.  
Morning Break
10:30 a.m. - 12:30 p.m. SESSION 9 (Moderator - Anne Hayden)

Apostolos Mihelakakis and A.S. Tzoumas: Integrated Fish Farm in Mediterranean: Case Study of NIREUS, Chios Aquaculture S.A. in Greece

Anthony Ostrowski: Candidate Species of the Pacific: the Hawaiian Fisheries Development Project

I Chiu Liao, Ya-Ke Hsu, and W. Lee: Marine Aquaculture in Taiwan

Daniel Curran, P. Hoagland, and D. Jin: An Access System for Ocean Mariculture: Influences of Current United States and International Law

12:30 - 1:30 p.m. Luncheon (no luncheon speaker)

1:30 - 3:30 p.m. SESSION 10 (Moderator - Joseph McElwee)

Sergey Matveev and L. Bugrov: Automation of Fish Farming Processes for Offshore Cages

Patrick Takahashi: The Ultimate Ocean Ranch

Kenji Hotta: Artificial Upwelling and Algae Structure for Open Ocean Aquaculture

Syd Kraul: Mahimahi Aquaculture – Pros and Cons of Cage Trials to Date

3:30 - 4:00 p.m. Afternoon Break

4:00 - 5:30 p.m. CLOSING SESSION (Moderator - Charles Helsley)

Round Table Discussion: Where To From Here? (Panel - Neville Thompson, James McVey, Gary Loverich, Michael De Alessi, Joseph McElwee)
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Index by Author Listing
Index by Authors

B
Barnaby, Roland .................. 175
Bonardelli, John C. ................. 225
Brock, Richard E. .................. 295

C
Carlstrom-Trick, Christine ........ 257
Celikkol, B. ......................... 175
Chambers, Michael D. ............. 77
Clarke, Steven ..................... 155
Condron, David M. ................ 89
Corbin, John S. .................... 25, 65
Curran, Daniel A. .................. 41

D
De Alessi, Michael ................ 47
Drawbridge, Mark A. ............... 203

G
Gace, Langley ...................... 131
Gignoux, Henri .................... 107

H
Hayden, Anne ...................... 57
Helsley, Charles .................. 3, 257
Hotta, Kenji ....................... 281
Howell, W. Huntting ............... 175

K
Kent, Donald B. .................... 203

L
Levesque, Marcel .................. 225
Liu, Clark C.K. ................... 295
Loverich, Gary F. .................. 131

M
Markels, Michael Jr. ............... 303
McElwee, Joseph .................. 239
McVey, James P. ................... 15
Merino, German E. ................. 145
Messier, R.H. ...................... 107
Mihelakakis, Apostolos .......... 251

O
Ostrowski, Anthony C. ........... 213

P
Petrusevics, Peter ................ 155
Powell, Eric ....................... 89

R
Rechntenwald, Victoria ........... 319

S
Savage, Godfrey H. ............... 175

T
Tamaru, Clyde S. .................. 257
Thompson, L.D. .................... 107
Tzoumas, A.S. ..................... 251

Y
Young, Leonard G.L. .......... 25, 65