



UJNR Aquaculture Panel

34th Scientific Symposium



Aquaculture and Stock Enhancement of Finfish
Hubbs-SeaWorld Research Institute, San Diego California
November 7-9, 2005
-Draft Program-

Monday, November 7, 2005

Registration: 7:45- 8:45

09:00-09:15 Opening remarks (Hubbs-SeaWorld)

Session 1 Theme: Technological adaptability of emerging high-value finfish to aquaculture: Seriola
(Moderator: TBD(1US & 1Japan))

09:15-09:45 Spawning and Larval Rearing of California Yellowtail *Seriola lalandi*,
Status and Future Prospects
Paula Sylvia (US)

09:45-10:15 Current situation of technical developments in seed production of
yellowtail, *Seriola quinqueradiata* in Japan
Dr. Keiichi Mushiake (Japan)

10:15-10:45 Open Ocean Culture of Kona Kampachi™ (*Seriola rivoliana*) from Hatch
to Harvest
Neil Simms (US)

10:45-11:00 Break

Session 2: Theme: Technological adaptability of emerging high-value finfish to aquaculture: Sciaenids
(Moderators: TBD (1US & 1Japan))

11:00-11:30 Sciaenids Review Paper
Jesse Chapell (US)

11:30- 12:00 Culture of spotted seatrout *Cynoscion nebulosus* in a closed, recirculating
system
Reginald Blaylock (US)

12: 00-12:30 Mariculture of White Seabass *Atractoscion nobilis* in Southern California
Mark Drawbridge (US)

12:30 13:45 Lunch Break (included with registration)

13:45-14:15 Disease Surveillance in Wild and Cultured Stocks of
White Seabass (*Atractoscion nobilis*)
Mark Okihiro (US)

**Session 3 Technological adaptability of emerging high-value finfish to
aquaculture: Sebastes**

(Moderators: TBD (1US & 1Japan))

14:15-14:45 Research on Aquaculture of rockfish in the United States
Mike Rust (US)

14:45-15:15 Review of juvenile production and its problems in black rockfish,
Sebastes schlegeli
Mr. Masahiro Nakagawa (Japan)

15:15- 15:30 Break

**Session 4 Technological adaptability of emerging high-value finfish to
aquaculture: Paralichthys**

(Moderators: TBD (1US & 1Japan))

15:30-16:00 Current Status of Southern Flounder Culture and Stock Enhancement
Harry Daniels (US)

16:00-16:30 Construction of BAC library from XY Japanese flounder using frozen
sperm genomic DNA
Dr. Hiroyuki Okamoto

16:30 –17:00 California Halibut
Juan Pablo Lazo (MX)

17:00 –17:15 Announcements

Tuesday, November 8, 2005

**Session 5 Technological adaptability of emerging high-value finfish to
aquaculture: Scombrids**

9:30-10:00 A REVIEW OF TUNA SPECIES AQUACULTURE AROUND THE
WORLD
Paula Sylvia (US)

10:00-10:30 Status quo of Pacific bluefin tuna seed production in Amami station of
NCSE FRA
Mr. Hideki Nikaido (Japan)

10:30-11:00 Captive Spawning and Rearing of Larvae and Juveniles of Yellowfin Tuna
Thunnus albacares
Dan Margulies (US)

10:30-10:45 Break

11:15-11:45 An Overview of Tuna Production and Farm Operations at Maricultura Del Norte in Ensenada B.C., MEXICO
Ted Dunn (US)

11:45-13:00 Lunch Break (included with registration)

Session 6 Technological adaptability of emerging high-value finfish to aquaculture: Genetics and Reproduction

(Moderators: TBD (1US & 1Japan))

13:00-13:30 Challenges of reproducing fish in a captive environment
Penny Swanson (US)

13:30-14:00 Techniques for induction of maturation, artificial fertilization, and larviculture in Japanese eel
Dr. Hideki Tanaka (Japan)

14:00-14:30 Quantitative Trait Loci (QTL) analysis and marker-assisted breeding for economical important trait in aquaculture
Dr. Akiyuki Ozaki (Japan)

14:30-14:45 Break

Session 7 Technological adaptability of emerging high-value finfish to aquaculture: US Regional Reviews (Moderators: TBD (1US & 1Japan))

14:45-15:15 Opportunities for Mariculture of Finfish in the Southwest Region of the United States
Mark Drawbridge (US)

15:15-15:45 Review of Pacific Northwest Marine Aquaculture
Walt Dickoff (US)

15:45-16:15 Marine Aquaculture in the Northeast US: Current Status and Future Prospects
Rich Langan (US)

16:15-16:45 Aquaculture Development of the Pacific Threadfin, Longfin, Amberjack, and Bluefin Trevally for Commercial Cage Culture in Hawaii
C. Laidley (US)

Session 8 Technological adaptability of emerging high-value finfish to aquaculture: Special Topics

(Moderators: TBD (1US & 1Japan))

16:45-17:15 A novel technique to collect gut contents for studying digestive mechanism in the abalone
Mr. Kentaro Niwa (Japan)

17:15 – 17:30 Announcements

17:30 –19:00 Closing Reception
~Firefly Room Dana Hotel

Wednesday, November 9, 2005

Session 8 Technological adaptability of emerging high-value finfish to aquaculture: Special Topics Continued

9:00-09:30 Circulating Systems
Ron Malone (US)

9:30-10:00 "Current Hatchery and Growout Technologies for High-Value Marine Fishes in the Southeastern United States"
Kevan Main (US)

10:00–10:30 Preparation of marine silage and its potential for industrial use
Dr. Motoharu Uchida (Japan)

10:30-10:45 Break

10:45–11:15 TECHNIQUES FOR LIVE CAPTURE OF DEEPWATER FISHES WITH SPECIAL EMPHASIS ON THE DESIGN AND APPLICATION OF A LOW-COST HYPERBARIC CHAMBER
Jeff Smiley (US)

11:15-11:30 Aquaculture and Stock Enhancement Technologies Based on Recently Discovered Calcium-Sensing Receptors in Finfish
Steve Jury (US)

11:30 - 12:00 Use of *Porphyra* protoplast as a food substitute for culturing aquatic animals
Dr. Takao Yoshimatsu (Japan)

12:00 – 12:30 Lessons from Salmon Farming and their Application to New Species
John Forrester (US)

12:30 – 1:00 Closing Remarks