

STATEMENT OF THE FOURTEENTH JOINT MEETING OF THE
UJNR AQUACULTURE PANEL
OCTOBER 16-17, 1985

The Fourteenth Joint Meeting of the UJNR Aquaculture Panel was held on October 16-17, 1985, in Clark Hall at the Woods Hole Oceanographic Institution in Woods Hole, Massachusetts. A business meeting was held in the morning of October 16 followed by a Symposium on October 16 and 17. The topic of the Symposium was "New and Innovative Advances in Biology/Engineering with Potential for Use in Aquaculture". Shigekatu Sato, Japanese Panel Chairman, and Conrad Mahuken, U.S. Panel Chairman, presented welcoming addresses and opening greetings. Panel members, guests and observers were introduced by the respective Panel Chairmen (Appendices I & II).

I. BUSINESS MEETING

In 1985, the Japanese and U.S. Panels both added new members, all experienced researchers and science administrators, to replace those lost over the past few years, and to better reflect U.S. Federal-agency involvement in aquaculture (Appendices III & IV).

The business meeting was chaired by the Japanese Panel Secretary General, Koji Wada, and the U.S. Vice Chairman, Robert Wildman. The Symposium moderators were Hitoshi Kito and Eugene Fritz. Rapporteurs for the meeting were Kunkiko Fukusho and Robert Bastian (Appendix V).

The following matters were discussed during the business meeting:

1. Exchange of Scientists

The exchange of scientists under the auspices of the UJNR Aquaculture Panel continued in the 1984-1985 time period. During that time, arrangements were made for the following exchanges:

a. Koichi Ohwada, National Research Institute of Aquaculture, to U.S. laboratories of the National Marine Fisheries Service in Oxford, Maryland, and Beaufort, North Carolina, and the Northwest and Alaska Fisheries Center in Seattle, Washington; Louisiana State University and Oregon State University, during the period March 4 - April 1, 1985.

b. Kunihiro Fukusho, National Research Institute of Aquaculture, to the National Marine Fisheries Service's Southwest Fisheries Center in La Jolla, California, preceded by a visit to the Northwest and Alaska Fisheries Center in Seattle, Washington, for a period of approximately one month following the Fourteenth Joint Meeting of the UJNR Aquaculture Panel.

c. Isao Yano, National Research Institute of Aquaculture, to the Oceanic Institute in Hawaii during the period September 1, 1985 to August 31, 1986.

d. Kanji Takahashi, Miyagi Prefectural Marine Experimental Station, to the National Marine Fisheries Service's Northwest and Alaska Fisheries Center in Seattle, Washington, and the National Marine Fisheries Service Laboratory in Oxford, Maryland; University of Washington, Woods Hole Oceanographic Institution, University of Delaware, University of California at Santa Barbara, and Humboldt State University, California, for a period of approximately 10 days before and after the Fourteenth Joint Meeting of the UJNR Aquaculture Panel.

e. A proposal by the U.S. Panel was accepted by the Japanese side to allow Akihiko Hara, National Research Institute of Aquaculture, to conduct research at the National Marine Fisheries Service's Northwest and Alaska Fisheries Center in Seattle, Washington, for six to ten months cooperatively with Walton Dickhoff on purification of salmon pituitary hormones and on salmon reproduction and vitellogenesis. The U.S. is offering to provide

airfare and a monthly stipend to cover living expenses in the U.S. and necessary laboratory supplies and equipment. This scientist exchange is contingent upon one of Dr. Dickhoff's graduate students securing a fellowship from the Japan Society for Promotion of Science to work with Hiroshi Kawauchi of Kitazato University.

f. Hitoshi Kito, Seikai Regional Fisheries Research Laboratory, to the University of Washington in Seattle, Washington, and to the University of California at Santa Barbara, California, for a period of approximately one week following the Fourteenth Joint Meeting of the UJNR Aquaculture Panel.

g. The Japanese Panel is considering sending Hiroyuki Sudo, Seikai Regional Fisheries Research Laboratory, to the U.S. as an exchange scientist during 1986. Details will be provided when funding is secured.

h. Dennis Powers, John Hopkins University in Baltimore, Maryland, is still establishing contacts and making plans for a proposed visit to Japan. His trip will be scheduled when funding becomes available and a specific itinerary is developed.

i. James Sullivan, University of California at La Jolla, California, has indicated an interest to visit Japan under UJNR auspices for himself and a visit by a graduate student of Howard Bern to a Japanese laboratory. Specific details for these visits will be developed.

2. Literature Exchange

The Japanese Panel received 159 papers and reports from the U.S. Panel as of October 1, 1985. These publications cover research on more than 24 species/species groups relating to many disciplines essential for aquaculture development. The Japanese Panel sent 106 papers to the U.S. Panel during September 1985, and will send an additional 45 papers during October 1985.

Ten copies of the Annual Report on Japan's Fisheries (1984), which has been translated into English, were sent to the U.S. Panel during 1985. Five copies of "Proceedings of the Eleventh US-Japan Joint Meeting on Aquaculture, Salmon Enhancement; Tokyo, Japan; October 19-20, 1982" (in Japanese) were sent to the U.S. Panel during 1985.

It was recommended and agreed that commencing with the literature exchange in 1986, a bibliography or listing of the publications be included with each package of reprints to facilitate distribution. It was further agreed that the literature citations should be in English.

3. Cooperative Studies

a. Ongoing Programs

- 1) "Sea Ranching of Western Pacific Chum Salmon in the Western Atlantic"

This project was initiated in 1983 by Sea Run, Inc. in Maine, and is being funded by the National Science Foundation Phase II Small Business Research Award Program. The last shipment of 1.5 million chum eggs was sent in January 1985. They were from Tsugaruishi Hatchery, and disease inspection was conducted by Professor Kimura, University of Hokkaido. The State of Washington also provided 0.4 million chum salmon eggs in 1985 for comparison to an Eastern Pacific stock. As stated in the October 1983 Statement of the Twelfth Joint Meeting of the UJNR Aquaculture Panel, though the project of the Panel was completed, the Japanese and U.S. Panels' future participation in the chum salmon egg transplant project will take the form of passive aid to the parties involved to provide an "umbrella" of protection for the project.

- 2) Experimental transplantation of Japanese scallops (Patinopecten yessoensis) in Puget Sound

This project began in 1982 to determine the growth and survival of Japanese scallops in the Puget Sound environment. Last year, Edwin Rhodes (National Marine Fisheries Service, Milford Laboratory) visited Aomori Aquaculture Center to examine the status of Japanese scallop aquaculture in Japan after the Thirteenth Joint Meeting of the UJNR Aquaculture Panel. Based on the findings of this visit and others to Canada, it has been recommended that this project be terminated. The Canadians are already well ahead of the US/Japan cooperative effort in this area.

- 3) UJNR assistance in the experimental transportation of Japanese abalone (Haliotis discus hannai)

This project began in 1983 (in conjunction with the twelfth Joint Meeting of the UJNR Aquaculture Panel) to determine the feasibility of culturing Japanese abalone in artificially upwelled deep-sea water in Hawaii. The Japanese Panel agreed to provide the abalone. However the shipment of abalone was not conducted in 1984 and 1985 because of inadequate preparations for their receipt by Monterey Abalone Farms. It has been recommended that this project be dropped because of the lack of implementation by Monterey Abalone Farms over the past two years.

- 4) Transportation of larvae of shrimp (Panaeus stylirostris)

This project began in 1983. The shipment of larvae was not conducted in 1984 because laboratory and holding

facilities at the National Research Institute of Aquaculture were not complete. In 1985, James McVey, National Sea Grant College Program, contacted the Japanese Panel concerning a plan for introducing the shrimp proposed by Isao Yano, National Research Institute of Aquaculture. Dr. Yano, who is presently working in Hawaii, plans to take along 2000 shrimp with him on his return to Japan.

5) Transportation of Alaskan abalone for experimental purposes

This project began in 1983 (in conjunction with the Twelfth Joint Meeting of the UJNR Aquaculture Panel). The shipment has not yet been conducted. The Japanese Panel will inform the U.S. Panel of further details of this proposal.

6) The establishment of a permanent UJNR working group on introductions of non-indigenous species

This program was proposed in 1983 (in conjunction with the Twelfth Joint Meeting of the UJNR Aquaculture Panel). Some species have already been introduced into Japan from the U.S., and the Japanese are concerned about their freedom to continue these introductions. The Japanese Panel provided suggested language about introduction for consideration by the U.S. Panel. A draft set of guidelines on introduction of non-indigenous species has recently been developed by Carl Sindermann, similar to those used by ICES (International Council for the Exploration of the Sea), but will not be provided to the Japanese Panel for consideration until after it is reviewed by the U.S. Panel. A composite incorporating both panels' suggestions will be drafted by Dr. Sindermann

for consideration at the Fifteenth US-Japan Joint Meetings in 1986.

7) Preparation of a Registry of Fish Pathology (ROMP)

This project began in 1978 in conjunction with the Seventh Joint Meeting of the UJNR Aquaculture Panel. It involves the compiling of a single, joint catalogue of fish pathology slides for both cultured and wild species of marine fish and shellfish. Former U.S. Panel member Robert Muchelano, reported that the materials to be provided by the U.S. are available, but that the catalog sheets from Japan have yet to be received. It was agreed that the Japanese side will complete their cataloging by the end of May 1986, or the cooperative project will be terminated.

8) Preparation of an international index of marine aquaculture diseases

This project was proposed for consideration by the U.S. side at the Twelfth Joint Meeting of the UJNR Aquaculture Panel. It was agreed that this cooperative project not begin until the ROMP project is completed, sometime in 1986.

b. No new cooperative studies were proposed by either side.

4. Status of Publications

Since the last Joint Meeting Japan, the "Proceedings of the Ninth (1980) and Tenth (1981) US-Japan Meeting on Aquaculture" held in Rehobeth, Delaware (Crustacean and Molluscan Nutrition), were published in 1985. Also, the "Proceedings of the Eleventh (1982) US-Japan Meeting on Aquaculture" (Salmon Enhancement) were published in 1985. The Japanese Panel was sent

copies of these publications. Editing of the "Proceedings of the Twelfth (1983) US-Japan Meeting on Aquaculture" has been completed and the document has been submitted for publication. Several complete, original manuscripts have yet to be received for editing before the "Proceedings of the Thirteenth (1984) US-Japan Meeting on Aquaculture" can be sent to the printer.

5. Other Business

a. The two panels have proposed the following counterpart members to coordinate UJNR activities:

Panel Chairmen.....Shigekatu Sato and Conrad Mahnken
Scientist Exchange.....Kunihiko Fukusho and Robert Wildman
Cooperative Projects.....Koji Wada and Conrad Mahnken
Literature Exchange.....Teruyuki Nakanishi and Benson Drucker
Publications.....Carl Sindermann

b. Third five year plan

The Japanese Panel proposed the following third five year plan which will be considered at the next joint meeting:

16th US-Japan Joint Meeting (1987)....Genetics & Breeding.....(US)
17th US-Japan Joint Meeting (1988)....Nutrition.....(Japan)
18th US-Japan Joint Meeting (1989)....Reproduction.....(US)
19th US-Japan Joint Meeting (1990)....Disease.....(Japan)
20th US-Japan Joint Meeting (1991)....Intensive & Extensive
Aquaculture.....(US)

6. Plans for the Next Joint Meeting

The Japanese Panel proposed that the Fifteenth US-Japan Joint Meeting "Marine Ranching" be changed to "Marine Farming and Enhancement." This change was agreed upon by both sides.

Tentative plans for next year's meeting are to hold the business meeting

and the major portion of the Symposium during October/November in Kyoto or Tokyo. The field trip will include visits to research institutions and commercial aquaculture facilities in the southern part of Japan (Kyushu Island).

7. Information on the Field Trip

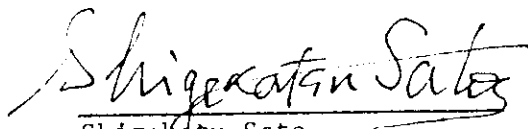
The U.S. Panel members provided information on the 1985 field trip schedule.

II. SYMPOSIUM

Fourteen excellent papers were delivered on a wide range of topics. The Symposium agenda is included in Appendix V.

The Panel Chairmen wish to express their sincere gratitude to Judith Capuzzo of WHOI for her excellent arrangements in providing conference facilities for the meetings. Thanks is also given to Edwin Rhodes and Kathy Smith for arranging the field trip.

Woods Hole Oceanographic Institution
October 16-17, 1985


Shigekazu Sato
Chairman


Conrad Mahnken
Chairman