

Statement of the Twenty-Fifth Joint Meeting of the UJNR Aquaculture Panel

The Twenty-Fifth Joint Meeting of the UJNR Aquaculture Panel was held on October 16-17, 1996, at the National Research Institute of Fisheries Science, Yokohama, Japan. A business meeting was held on the morning of October 16, followed by a symposium. The theme of the symposium was "Biodiversity and Aquaculture for Sustainable Development."

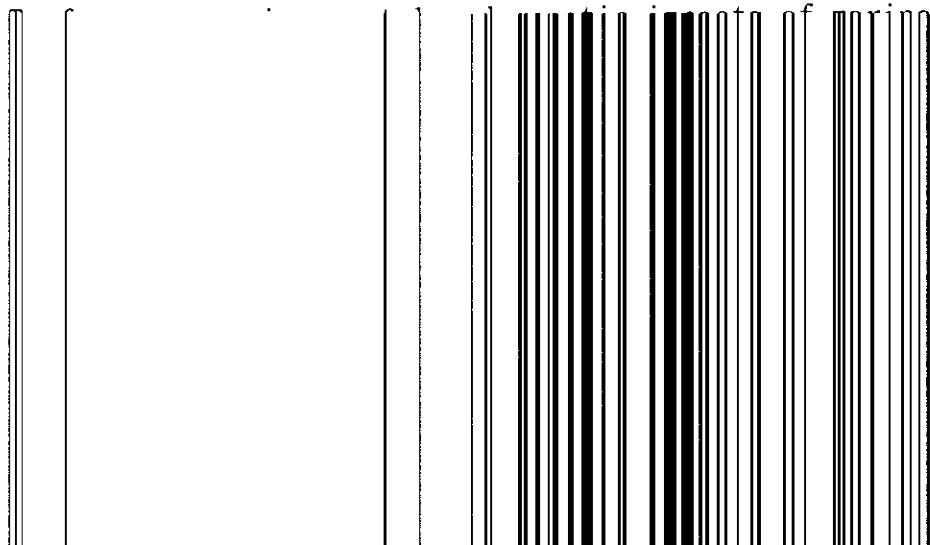
First, Dr. Nagahisa Uki, Secretary General of the UJNR Aquaculture Panel, declared the opening of this Joint Meeting. Dr. Masanori Azeta, Chair of the Japanese Delegation and Director of the National Research Institute of Aquaculture, first stressed thanks to the 24th UJNR Panel for large attendance at Corpus Christi, Texas. He expressed appreciation to Dr. James P. McVey, Chair of the U.S. Delegation, for organizing the conference and field trips.

Sustainable food supply and conservation of environment are urgent global issues in recent years. The theme adopted to be carried out at the conclusion of last year meeting of the 25th UJNR meeting attracted a lot of Japanese scientists and administrations, and more than one hundred people will attend the meeting. Dr. Azeta emphasized that discussion by scientists of both country which have differences in natural features, role of fisheries and culture will promote to comprehensive and universal understanding for the relationships between sustainable development of aquaculture and biodiversity. He also stated that this meeting will promote the cooperative flounder research by both country scientists and will bear significant fruit in the next joint 5-year plan for the UJNR Aquaculture panel. Field trips are mainly focused on flounder research. He commented that exchange of opinions with the U.S. Delegation and the staff of National Research Institute of Fisheries Engineering Japan Marine Science & Technology Center, Kanagawa Prefectural Fisheries Experimental Station, Ibaraki Prefectural Sea farming Center and Ibaraki Prefectural Fisheries Experimental Station is important for stock enhancement and effective utilization of coastal waters. He concluded by expressing his wish that meeting and field trips will be successful and

memorable.

Dr. McVey expressed extreme pleasure that we are visiting our colleagues of UJNR in Japan. He thanked Dr. Azeta and his staff at NRIA for their preparations of the field trips and their cooperation. He also expressed thanks to Dr. Takeshi Hara, Director of the National Research Institute of Fisheries Science, for arrangements made in our behalf. Dr. McVey stated that there are seven panels under Natural Resources and Aquaculture is the most active of the panels. The Aquaculture Panel has met each year, alternating between the cooperating countries, for the past 15 years. He stated that the theme this year and the terms biodiversity and sustainability go hand in hand. If we lose biodiversity, then we lose sustainability. These important concepts of biodiversity and sustainability are being brought into the official policy for the future of our countries. In the United States, fears of environmental impacts of aquaculture and loss of biodiversity are limiting aquaculture development. In Japan, these same issues are being addressed to allow wise development and expansion of current production. The UJNR Aquaculture Panel has operated under a series of 5 year plans. We are beginning the fifth 5 year plan with the overall theme of sustainable aquaculture, and this meeting will determine the course of our actions during the next 5 years. The relationship between man and the biotic environment and development of sustainable technologies is the key to aquaculture development in both countries. We have a common interest in exploring biodiversity and sustainability as it pertains to aquaculture. We need:

- o Good science and information for policy and decisionmakers;
- o Collaborative studies on critical issues;
- o Marine fish enhancement studies, with flounder as model;
- o Several side meetings on this topic;



o Joint publications

Dr. McVey concluded by stating that the next 5 years is a critical time for preserving biodiversity and establishing sustainable aquaculture technology. He looks forward to the next 25 years of collaboration and scientific exchange with our Japanese colleagues.

Dr. Azeta introduced members of Japanese Panel: Drs. Nagahisa Uki (Secretary General), Tohru Suzuki (Literature Exchange), Kazuhiro Nakajima (Collaboration), Mitsuru Ototake (Scientist Exchange) Secretaries of NRIA; Drs. Junya Higano of NRIFE, Tadashi Ando of Hokkaido NRI, Yoo Yamashita of Tohoku NRI, Kazumi Hosoya of NRIFS, Tetsuo Fujii of Japan Sea NRI, Goro Yoshida of Nansei NRI, Marcy N. Wilder of Japan International Research Center for Agricultural Sciences. He also introduced Dr. Atsushi Furukawa, member of the Advisory Board.

Dr. McVey introduced members of U.S. Panel: Dr. W. Heard, NMFS Auke Bay Laboratory; Dr. J. Sullivan, California Sea Grant College Systems, San Diego (Scientist Exchange); Dr. C. Mahnken, Director of the NMFS Manchester Laboratory (Vice Chairman); Ms. J. Keller, NMFS, Oxford, MD (Publication); Dr. H. Bern, University of California at Berkeley; Dr. R. Stickney, Director of Sea Grant College Program, Texas A&M University; Dr. C. Helsley, Hawaii Sea Grant College Program; Dr. A. J. Paul, University of Alaska; Dr. M. Schiewe, NMFS, Seattle, WA; Dr. T. Smith, South Carolina DNR; Mr. R. Barnaby, Sea Grant College Program, University of New Hampshire; Dr. C. S. Lee, Hawaii Oceanographic Institute.

Dr. Uki introduced designated Japan rapporteur, Dr. Suzuki. Dr. McVey introduced designated U.S. rapporteur, Mrs. Keller.

The agenda for the business meeting, symposium program, itinerary of the meeting and field trip and lists of members are attached (Appendices I-VII).

Scientist Exchange Program

Dr. Ototake passed out a list of 42 Japanese scientists who visited the United States (Appendix VIII).

Dr. Sullivan indicated that 8 U.S. scientists visited Japan (Appendix IX). He commented that it would be beneficial to facilitate mor

exchange through UJNR for visits to Japan and that perhaps a subcommittee to work on such an exchange would maximize cooperation. To increase participation of the United States, Dr. Sullivan thanked Dr. McVey for changing the structure of the Panel. Dr. Mahnken stated that there were three other exchanges which may not be common knowledge to the Japanese members. He apologized for not making the Japanese delegation aware of these exchanges, but feels these three exchanges do qualify since they were arranged by him.

Literature Exchange Program

Dr. Suzuki indicated that 159 reprints were collected from 10 research institutes (Appendix X).

Dr. McVey passed to Dr. Azeta a list of 48 reprints from the U.S. Panel (Appendix XI). He explained that the responsibility of the literature exchange program was shifted from the National Aquaculture Information Center to Carol Watts, Director of NOAA National Library. He told that a homepage on the UJNR Aquaculture Panel in the U.S., which shows the past proceedings and list of papers, has been opened world wide through internet. Dr. Uki echoed that Japanese side wishes to open the UJNR homepage.

Cooperative Studies Program

Dr. Nakajima handed out a list of Researchers-Japan (Appendix XII) and a list of Research Subjects-Japan (Appendix XIII). Fisheries Statistics of Japan was also passed out. He explained that cooperative work on flounder release is progressing to evaluate impact of juvenile release towards environment. The chief investigators of this work are Dr. Masaru Tanaka, Kyoto University, and Dr. Miller, North Carolina State University. He also announced that an International Workshop on New Approaches of Viral Diseases of Aquatic Animals will be held in Kyoto from January 21-24, granted by the Japan Science and Technology Agency.

Dr. McVey passed to Dr. Nakajima four lists: Sea Grant's Guide to Coastal Science Experts; Fisheries of the United States, 1995; A draft plan on Sustainable Flounder Culture and Fisheries; Directory of States Aquaculture Coordinators and Contacts, 1996 (Appendix XIV).

Publications Program

Dr. Uki explained, instead of Dr. Kazufumi Takayanagi who is charged in publication exchange, that the proceedings of 1995 meeting is now being edited by the U.S. side, and the proceedings of this meeting will be published in April, 1997. Dr. Takayanagi had requested to all the speakers to bring the manuscripts to this meeting. Dr. Uki asked Dr. McVey if reprints from the proceedings published in U.S. are available as the costs for reprints will be paid by Japanese panel. He proposed that we have uniform proceedings. Other issues will be discussed on secretary's side later.

Mrs. Keller expressed gratitude for efforts of Dr. McVey, Dr. Paul K. Park, and especially to Dr. Azeta to allow her to attend meeting and field trips in Japan. She reported that Dr. Takayanagi has been most helpful in returning Japanese manuscripts to her and that all manuscripts except one are at the publisher. Publication of 24th Proceedings is expected in two months. Other concerns regarding format will be addressed with Dr. Takayanagi.

Dr. McVey commented that reprint availability on U.S. side will be addressed.

General Discussion

A. Next Five-Year Plan

Both panels agreed on the next 5-year plan as follows but need to discuss in more detail later.

1. Technical development of aquaculture and nutritional metabolism
(September 1977, New Hampshire)
2. Goal and strategies for breeding in fisheries
(1998, Japan)
3. Maturation and developmental mechanisms and seed production
(1998, USA)
4. Pathogenic organisms and disease prevention (2000, Japan)
5. Ecology of aquaculture species and enhancement of stocks (2001, USA)

B. Plans for Next Joint Meeting

It was announced that the theme of the next joint meeting is "Technical Development of Aquaculture and Nutritional Metabolism". The meeting will be held at the University of New Hampshire on Sept. 16-17, 1997, followed by a field trip, 18-25 Sept. The host of the meeting is Dr. Ann Bucklin, Director of Sea Grant College Program of the University.

Dr. Sullivan remarked on Sea Grant expansion. Dr. McVey commented that much of the recent research and literature exchange is provided by Sea Grant College programs and this will be encouraged.

Dr. Sullivan announced that the 3rd International Symposium on Abalone will be held in October, 1997 at Monterey, California. Dr. McVey told that the 2nd International Conference on Open Ocean Aquaculture will be held in Hawaii in April 1997.

Finally Dr. Azeta said he hopes this meeting will be active, fruitful and successful.

Dr. Azeta and Dr. McVey announced that all business had been concluded. The Twenty-Fifth Joint Meeting of the UJNR Aquaculture Panel was then adjourned.

At Yokohama, Japan.

October 16, 1996

M. Azeta

Dr. Masanori AZETA

Japanese Chairman

James P. McVey

Dr. James P. McVey

U. S. Chairman