

AGENDA

TITLE : Morioka Salmon Workshop: bridging fisheries research and education for sustainable salmon fishery

BACKGROUND AND PURPOSE : Iwate University decided to establish a new graduate school and undergraduate course of fisheries science to promote rehabilitation of the fisheries industry in Sanriku-region heavily damaged by a massive earthquake and devastating tsunami on March 11, 2011. Sanriku fisheries industry is largely relying on salmon catch. The purpose of this workshop, open for public, is to help launch a new fisheries science education in Iwate University for promotion of salmon research to help sustain Sanriku fisheries industry.

DATE : February 8 to 10, 2016

VENUE : Hotel Metropolitan Morioka New Wing, Morioka, Iwate Prefecture, Japan

SCHEDULE :

February 8 (Mon)	8:45 – 20:30	Workshop and evening welcome reception
February 9 (Tue)	9:30 – 15:50	Workshop and poster session
February 10 (Wed)	9:00 – 17:30	Field tour, coastal tsunami sites and hatcheries

TOPICS (with English and Japanese simultaneous interpretation) : February 8

8:45 – 8:50	Welcome note	Hitoshi Yashiro
8:50 – 9:05	Opening Remarks	Syuiti Abe
9:05 – 9:45	Plenary lecture (Toru Nagasawa)	Richard J. Beamish: Planning for the future of Pacific salmon production
9:45 – 10:00		– Break –

Session 1, Pacific salmon production: management education (Toru Nagasawa, Marc Trudel)

10:00 – 10:25	a. North America	Andrew K. Gray*, Joe Orsi, Jim Murphy, Alex Wertheimer, Emily Fergusson: The use of marine ecosystem metrics for preseason forecasts of salmon harvest
10:25 – 10:50	a. North America	James E. Seeb*: Applying genetic markers to manage sustainable fisheries for salmon in Alaska
10:50 – 11:15	b. Russia	Aleksandr Zavolokin*: Russian salmon production: past, present, future
11:15 – 11:40	c. Japan	Shigehiko Urawa*: Status of chum salmon populations and research program for their rehabilitation in the Pacific coast of northern Japan
11:40 – 13:00		– Lunch –
13:00 – 13:25	c. Japan	Yasuyuki Miyakoshi*: Recent status of chum and pink salmon stocks in Hokkaido, northern Japan

- 13:25 – 13:50 c. Japan Gen Ogawa*, Kodai Yamane: Chum salmon (*Oncorhynchus keta*) production in the Sanriku-region, Japan
- 13:50 – 14:15 d. NPAFC coordination Nancy Davis*, Vladimir I. Radchenko: NPAFC coordination: fisheries enforcement and scientific research on salmon in the North Pacific

Session 2, Salmon biology: enhancement education (Yoshitaka Nagahama, Graham young)

- 14:15 – 14:40 a. Genetics Lisa W. Seeb*: Fisheries genetics in the era of genomics
- 14:40 – 15:05 a. Genetics Shunpei Sato*, Shigehiko Urawa: Ocean distribution and abundance of Japanese and other stocks of chum salmon in the summer Bering Sea estimated by genetic methods
- 15:05 – 15:15 – Break –
- 15:15 – 15:40 b. Physiology Penny Swanson*, Jon Dickey, Mollie Middleton, and Donald Larsen: Reforming hatchery rearing practices to improve effectiveness of supplementation and conservation hatcheries for Pacific salmon and steelhead (*Oncorhynchus* sp.)
- 15:40 – 16:05 b. Physiology Birgitta Norberg*, Anna Wargelius, Eva Andersson, Tom Hansen, Per Gunnar Fjellidal, Lene Kleppe, Rolf Brudvik Edvardsen, Geir Lasse Taranger: Atlantic salmon aquaculture in Norway
- 16:05 – 16:30 b. Physiology Hiroshi Ueda*: Physiological mechanisms of imprinting and homing migration in Pacific salmon
- 16:30 – 16:55 c. Ecology Marc Trudel*, Strahan Tucker: Migration and survival of salmon in a changing climate
- 16:55 – 17:10 – Break –

Session 3, Panel discussion

- 17:10 – 18:15 Syuiti Abe (convener), Andrew K. Gray, Aleksandr Zavolokin, Shigehiko Urawa, Lisa W. Seeb, Penny Swanson, Marc Trudel
- 18:30 – 20:30 – Welcome reception –

(Day 1 end)

Session 4, Salmon & fisheries education (Noriyuki Tanaka, Penny Swanson) : February 9

- 9:30 – 9:55 a. Ecosystem Masahide Kaeriyama*: Ecosystem-based sustainability science of Pacific salmon and paradigm shift of fisheries education
- 9:55 – 10:20 b. Socio-economics Kathrine Tveiterås*: Interdisciplinary learning in fisheries and aquaculture
- 10:20 – 10:45 c. Regional program Graham Young*: Structuring research programs to address industry priorities and ensure technology transfer: the US Regional Aquaculture Center program model
- 10:45 – 11:00 – Break –

11:00 – 11:25 d. Global marketing Ikutaro Shimizu*: Sustainability of diversification by salmon producing countries in global salmon markets

11:25 – 11:50 d. Global marketing Gakushi Ishimura*: Searching for new market strategy for Iwate Chum Salmon

11:50 – 13:00 – Lunch –

Session 5, Poster session

13:00 – 14:30

14:30 – 14:45 – Break –

Session 6, Wrap-up (Panel discussion)

14:45 – 15:45 Noriyuki Tanaka (convener), Richard J. Beamish, Toru Nagasawa, Akihisa Urano, Kathrine Tveiterås, Graham Young, Birgitta Norberg, Gakushi Ishimura

15:45 – 15:50 Closing comments Kohei Yamauchi

(Day 2 end)

Field tour, coastal tsunami sites and hatcheries: February 10

9:00 – 17:30 Morioka – Kuji – Akka River hatchery – Taro – Miyako – Tsugaruishi River hatchery – Morioka

(Day 3 end)

SPEAKERS (SESSION CONVENERS) TO BE INVITED

Richard J. Beamish; Plenary lecture –Pacific salmon production and management

Fisheries and Oceans Canada, Pacific Biological Station, Nanaimo, British Columbia, Canada

Toru Nagasawa; Plenary lecture (session convener)

Hokkaido National Fisheries Research Institute, Fisheries Research Agency, Japan

Andrew K. Gray; Pacific salmon production North America

NOAA, Alaska Fisheries Science Center, Auke Bay Laboratories, Juneau, AK, USA

James E. Seeb; Pacific salmon production, North America

SAFS, University of Washington, Seattle, WA, USA

Alexander Zavolokin; Pacific salmon production Russia

Pacific Scientific Research Fisheries Center (TINRO-Center), Vladivostok, Russia

Shigehiko Urawa; Pacific salmon production Japan

Hokkaido National Fisheries Research Institute, Fisheries Research Agency, Japan

Yasuyuki Miyakoshi; Pacific salmon production Japan (Hokkaido)

Salmon and Freshwater Fisheries Research Center, Hokkaido Research Organization, Japan

Gen Ogawa; Pacific salmon production Japan (Sanriku-region)

Iwate Prefecture Fisheries Research Institute, Kamaishi, Iwate, Japan

Nancy Davis; NPAFC coordination: fisheries enforcement and scientific research (North Pacific)

North Pacific Anadromous Fish Commission, Vancouver, BC Canada

Lisa E. Seeb; Salmon biology Genetics - review

SAFS, University of Washington, Seattle, WA, USA

Shunpei Sato; Salmon biology Genetics - chum salmon

Hokkaido National Fisheries Research Institute, Fisheries Research Agency, Japan

Penny Swanson; Salmon biology Physiology

Northwest Fisheries Science Center, NOAA, Seattle, WA, USA

Birgitta Norberg; Salmon biology Physiology

Marine Research Institute, Bergen, Norway

Hiroshi Ueda; Salmon biology Physiology

Graduate School of Environmental Earth Science, Hokkaido University, Japan

Marc Trudel; Salmon biology Ecology

Fisheries and Oceans Canada, Pacific Biological Station, Nanaimo, British Columbia, Canada

Yoshitaka Nagahama; Salmon biology (session convener)

South Ehime Fisheries Research Center, Ehime University, Ehime, Japan

Masahide Kaeriyama; Salmon & fisheries education Ecosystem

Office of International Affairs, Hokkaido University, Sapporo, Japan

Kathrine Tveiterås; Salmon & fisheries education Socio-economics

Faculty of Bioscience, Fisheries and Economics, University of Tromsø, Tromsø, Norway

Graham Young; Regional program Regional aquaculture program

School of Aquatic and Fisheries Science, University of Washington, Seattle, WA, USA

Ikutaro Shimizu; Salmon & fisheries education Global marketing

National Research Institute of Fisheries Science, Fisheries Research Agency, Japan

Gaku Ishimura; Salmon & fisheries education Global marketing

Sanriku Fisheries Research Center, Iwate University, Kamaishi, Iwate, Japan

Noriyuki Tanaka; Salmon & fisheries education (session convener)

Sanriku Fisheries Research Center, Iwate University, Kamaishi, Iwate, Japan

Hitoshi Yashiro Welcome Note

Organization for Revitalization of Sanriku-region, Iwate University, Morioka, Iwate, Japan

Syuiti Abe Opening Remarks

Sanriku Fisheries Research Center, Iwate University, Kamaishi, Iwate, Japan

Akihisa Urano Wrap-up paneller

School of Science, Hokkaido University

Kohei Yamauchi Closing Remarks

South Ehime Fisheries Research Center, Ehime University, Ehime, Japan