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


10:50 – 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

13:50 – 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


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 Fjelldal, 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


16:55 – 17:10  –  Break  –

**Session 3, Panel discussion**

17:10 – 18:15  Syuuti 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


9:55 – 10:20  b. Socioeconomics  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, Gakuishi 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

Yasuyuki Miyakoshi: Pacific salmon production Japan (Hokkaido)
Salmon and Freshwater Fisheries Research Center, Hokkaido Research Organization, 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, Tromso, 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