May 17-19, 2015  
Kobe International conference Center, Kobe, Japan  
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Topic Sessions

1. Migration and survival mechanisms of salmonids during critical periods in their marine life history  
   Session Conveners: Marc Trudel (Canada) and Ju Kyoung Kim (Korea)
   1a. Initial period of marine life  
      Keynote Speaker: David Welch (Canada)
   1b. Winter period  
      Keynote Speaker: Katherine (Kate) Myers (USA)

   Key areas:
   • Distribution and migration route/timing during initial marine life and winter periods
   • Hydrological characteristics, primary production, and prey resources in ocean habitats
   • Trophic linkages, growth rates, and predation rates
   • Survival rate and survival mechanisms
   • Ecological interactions between species and between populations

2. Climate change impacts on salmonid production and their marine ecosystems  
   Session Conveners: Edward Farley (USA) and Olga Temnykh (Russia)
   Keynote Speakers: Emanuele (Manu) Di Lorenzo (USA) and Suam Kim (Korea)

   Key areas:
   • Effects of climate change and climate cycles on anadromous populations, pelagic fish communities, and ocean ecosystems
   • Key climatic and oceanographic factors affecting long-term changes in ocean food production and salmon growth rates
   • Possible climate change impacts on ocean salmon habitats
   • Climate change and climate cycles affects on carrying capacity

3. Retrospective analysis of key salmonid populations as indicators of marine ecosystem conditions  
   Session Conveners: James Irvine (Canada) and Toshihiko Saito (Japan)
   Keynote Speakers: Alexander Kaev (Russia) and Gregory Ruggerone (USA)

   Key areas:
   • Time series of salmonid population characteristics (abundance, age and body size at return, timing of return, fecundity, egg size, trophic condition, genetic diversity, disease and parasites) as indicators of regional and basin-scale ecosystem conditions
   • Retrospective analysis of salmon production and habitat environmental characteristics as a method of predicting changes and how abundances will respond to changing climate
   • Time series of regional salmonid production characteristics including wild and hatchery fish
   • Understanding the implications of habitat utilization by increasing numbers of Pacific Rim salmon populations
4. Application of stock identification and models for salmonid population management

Session Conveners: Jeffrey Guyon (USA) and Michio Kishi (Japan)

4a. Stock identification development and applications for management
Keynote Speaker: Lisa Seeb (USA)

4b. Model development and applications for management
Keynote Speaker: Randall Peterman (Canada)

Key areas:
- Recent developments to improve stock identification methods
- Novel approaches incorporating stock identification techniques for management
- Descriptive, physical, mathematical, and statistical salmonid models useful for management

5. Forecasting salmonid production and linked ecosystems in a changing climate

Session Conveners: Alexander Zavolokin (Russia) and Richard Beamish (Canada)

Keynote Speakers: Richard Beamish (Canada)
Masahide Kaeriyama (Japan)
Skip McKinnell (Canada)

Key areas:
- Common mechanisms regulating salmonid production
- Successes in short-term and long-term forecasting of salmonid production
- Future scenario of climate and ecosystem changes and their implications for salmon
- Lessons learned from forecasting salmon production and future research directions

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