

Stock identification – applications for aquaculture and fisheries management (L)

Conveners: Terje Svåsand (Norway) and Steve Cadrin (USA)

Advances in methods for identifying specific stocks have been significant in recent years and provide better possibilities for stock-specific catch advice (at regional, river, and tributary level). Further, more specific genetic markers for aquaculture species are being realised, which may identify escapes to a specific fish farm and give knowledge to the question if/how escapees are incorporated into wild stocks. The theme session will further allow the potential for these applications to be reported and the implications for fisheries management to be discussed with the scientific community, stakeholders, and resource managers.

Specific topics and papers should include:

- Recent developments in genetic stock identification methods;
- Progress in fast tracking large sample sizes;
- Genetic assignment – accuracy and application to stock management;
- Genetic interactions between wild and cultivated stocks;
- Application of GSI to real-time stock management;
- Advances in scale and otolith micro-structure for stock discrimination;
- Development of markers for aquaculture species;
- Application of genetic methods to the development of the aquaculture industry;
- Minimum effective population sizes for threatened and endangered fish species;
- Case studies in multidisciplinary stock identification;
- Monitoring and managing mixed-stock fisheries.

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