



Global Conference on Aquaculture 2010

Farming the waters for People and Food

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SESSION 4: SUMMARY PRESENTATIONS, RECOMMENDATIONS AND CONCLUSIONS

Thematic I: Resources, services, and technologies for future aquaculture

Expert Panel Presentation I.1: Responsible use of resources for sustainable aquaculture

- 1.To increase the profitability of recirculating aquaculture systems, accelerate the development and use of renewable energy systems.
- 2.To avoid land constraints, accelerate the development of integrated cage culture systems such as biculture, polyculture, and submerged systems in open waters.
- 3.Develop and disseminate integrated fed and non-fed aquaculture systems that have the multiple uses of water for increased productivity and profitability of both terrestrial and aquatic foods and energy.
- 4.Use of indicators such as life cycle assessments, and other tools (e.g., fish in/fish out ratio) will assist in measuring and communicating the sustainability of aquaculture in comparison with other food production sectors.
- 5.There is a need for wider and effective dissemination of innovations in aquaculture.

Expert Panel Presentation I.2: Novel and emerging technologies: can they contribute to improving aquaculture sustainability

1. Apply risk analysis (assessment, management, communication) approaches to implementation of technology advances focusing on the risks/benefits of the improvement rather than the means of achieving it.

2. Focus research and encourage multidisciplinary collaboration by facilitating consensus on goals and objectives and then developing measures and metrics to quantify progress towards desired outcomes. The follow up to evaluate progress, dissemination and outcomes.

3. Extend technology advances emanating from industrial scale aquaculture to benefit small and medium scale sectors. For example, encouraging clustering to improve access to technologies for health management, genetic improvement, feed formulation/management etc.

Expert panel presentation I.3: Aquaculture feeds: addressing the long term sustainability of the sector

1. Reduce developing country dependence upon imported feed ingredient sources within compound aquafeeds by encouraging outreach and training opportunities to maximize the use of locally available feed ingredient sources and nutrient waste streams as feed inputs, especially those feed ingredient sources that can be sustainably produced and grown with the sector.

2. Assist and train resource poor farmers and small/medium-scale local feed producers by encouraging the use of improved cost effective feed preparation and feed management techniques.

3. Encourage diversification of sustainable feed resource utilization by enhancing knowledge of nutritional requirements and nutrient availability and facilitating agriculture/aquaculture dialog and innovation.