## **Fisheries Resource Education Program:** The Business of Fishing

**Thainestone House, June 12 - 14, 2017**

**Monday, June 12, 2017**

7:30 a.m. Breakfast & Coffee

8:30 a.m. Introductions & Welcome  *Alexa Dayton*

9:00 a.m. Programme & Agenda Overview *Mike Park & Derek Cardno*

* We are on a journey
* Why you need this information as fishermen

9:15 a.m. Introduction to Marine Science and Oceanography *Bill Turrell*

* Overview of Marine Science and marine scientists in Scotland
* Explaining how marine science, management and fish fit together
* The biological cycle at sea
* An introduction to general oceanography

10:30 a.m. Break

10:45 a.m. Fishery Sampling & Data Collection *Steve Mackinson*

* What information is needed and why
* How it is collected
* How it is used

11:30 Fish Biology and Sustainability (I) *Dr Tara Marshall*

* Sustainability and sustainable fishing
* Fish biology and how to age fish

12:30 p.m. Lunch + optional hands-on session *Jane Mills*

1:30 p.m. Fish Biology (II) + Q&A panel with presenters *T Marshall & S Mackinson*

2:30 p.m. Introduce group activity – Swept Area Survey *Steve Mackinson*

3:00 p.m. Break + Group Activity:

* Swept Area Survey Activity
* Learning how the design of a fisheries survey affects the estimates of abundance and how this changes over time

4:30 p.m. Feedback from group activity

5:15 p.m. Close and final comments

6:00 p.m. Drinks reception followed by dinner @7:30 p.m.

**Tuesday, June 13, 2017**

7:30 a.m. Breakfast & Coffee

8:30 a.m. Morning Welcome and Reflections

9:00 a.m. Stock Assessment & Modelling Overview *Coby Needle*

* The assessment problem
* Modelling concepts and model selection
* MSY explained
* Ecosystem considerations
* The ‘Catch-Option’ table

10:30 a.m. Break (+VIP moment)

11:30 a.m. Fisheries Management: The Bridge between science and policy *Allan Gibb*

* Recapping from previous day
* Setting the Scene
* Getting the Quota
* Specific Examples

12:30 p.m. Lunch

1:30 p.m. Governance, how to get involved *Mike Park*

* RACs, Inshore Fishery Groups (IFGs)
* Websites, Face Book
* Advisory panels
* Associations

2:30 p.m. Break + Group Activity: Reviewing Stock Assessment Sheets *Dr Ciaran Kelly*

* ‘Have at It’ with stock assessment sheets

4:00 p.m. Activity Debrief

* Q&A about Stock Assessment Sheets and processes

5:00 p.m. Adjourn

6:00 p.m. Drinks reception followed by dinner @ 7:30 p.m.

**Wednesday, June 14, 2017**

7:30 a.m. Breakfast

8:30 a.m. Morning Welcome and Housekeeping

* Evaluation Forms & Reimbursements

9:15 a.m. Economics and Social Science Considerations *Hazel Curtis*

* Economic data for fisheries management
* Data collection – how we do it
* Outputs and evidence bases – what they mean
* Economic Impact Assessments
* Economic advice in fisheries management
* Economic principles in fisheries management

10:30 a.m. Break

11:00 a.m. Conservation in Action *Rory Crawford*

* Evolving NGO and Industry engagement
* Case Study 1: Sandeel fishery
* Case Study 2: Seabird bycatch reduction
* Case Study 3: Working with the Advisory Councils

12:15 p.m. Lunch + Plenary speaker *David Parker*

* “Markets as Drivers”

1:15 p.m. Q&A and open panel discussion

2:15 p.m. Wrap-up comments -- and Farewell, evaluation forms