

Fisheries Resource Education Program: The Business of Fishing

Thainestone House, Aberdeenshire, Scotland

June 12 - 14, 2017

Monday, June 12, 2017

7:30 a.m.	Breakfast & Coffee	
8:30 a.m.	Introductions & Welcome	<i>Alexa Dayton</i>
9:00 a.m.	Programme & Agenda Overview	<i>Mike Park & Derek Cardno</i>
	<ul style="list-style-type: none"> • We are on a journey • Why you need this information as fishermen 	
9:15 a.m.	Introduction to Marine Science and Oceanography	<i>Bill Turrell</i>
	<ul style="list-style-type: none"> • 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	<i>Steve Mackinson</i>
	<ul style="list-style-type: none"> • What information is needed and why • How it is collected • How it is used 	
11:30	Fish Biology and Sustainability (I)	<i>Tara Marshall</i>
	<ul style="list-style-type: none"> • Sustainability and sustainable fishing • Fish biology and how to age fish 	
12:30 p.m.	Lunch + optional hands-on practical session	<i>Jane Mills</i>
1:30 p.m.	Fish Biology (II) + Q&A panel with presenters	<i>Tara Marshall & Steve Mackinson</i>
2:30 p.m.	Introduce group activity – Swept Area Survey	<i>Steve Mackinson</i>
3:00 p.m.	Break + Group Activity:	
	<ul style="list-style-type: none"> • 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 & Modeling 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. Biological Ref points & Setting TACs *Allan Gibb*
- Stock Status Determination
 - ACL, Sub-ACLs, and TACs
 - Accountability Measures (?)
 - Assessment timelines, frequency
 - ICES process described
- 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 *Ciaran Kelly*
1. Initial scrutiny of ICES Stock Assessment Sheets
 2. Feedback to group
 3. Presentation on structure and evolution of the Stock Assessment Sheets
 4. Further critical evaluation of Stock Assessment Sheets
- 4:30 p.m. Activity Debrief
5. 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 + 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