

BufferTech exchange meeting Scotland

Travel plans: in/out of Aberdeen airport.

Arrival Aberdeen: 21.8.18 – 18:55

Departure Aberdeen: 23.8.18 – 19:30

Group participants:

- Visitors: Academic staff from Danish Universities and from the agronomic extension service SEGES (<https://www.seges.dk/en>)
- PhD students visiting and locally-based
- JHI research and farm staff
- Representative from Scottish Environment Protection Agency (Darrell Crothers, Diffuse Pollution Specialist)
- Local farm advisors (Steff Ferguson, Riparian Habitat Adviser; others tbc)

Aims:

- To develop an understanding of the two countries work and share ideas around:
 - The development of technical measures to control nutrient leaching in/edge of field;
 - Application and uptake of those measures with close working with farmers, structures of doing this within the local policies for agriculture and environment;
 - Phosphorus research/practice and erosion control, soil drainage research
 - Implementation working with farmers, locally and at bigger scales – catchment partnerships etc
- To visit the BufferTech site at Balruddery and other trials of measures or examples of working with farmers in the field

Tues 21st August

Arrival at Aberdeen airport, travel to hotel and meet there at 8pm, dinner in the Palm court at 8-30pm.

Wed 22nd August

Time	Activities	Notes
08-45	Meet in the hotel lobby and walk/drive over to JHI	Its about 500 m away (drivers bring cars over)
09-00	Arrive at JHI for coffee and scones	
09-30 to 12-15 with a quick coffee/tea refill in the middle.	<u>Danish presentations (blue), Scottish presentations (black font):</u> Welcome and introduction to Aberdeen and Hutton Institute (Marc, 10 mins) <i>A new era of targeted regulation of agricultural nutrient pressures to the aquatic environment in Denmark: what kind of mitigation measures are officially approved, under scientific testing and in the pipeline?</i> - Brian Kronvang (30 min) <i>Nutrient and runoff management: research needs, catchments and evidence for Scotland</i> – Marc Stutter (15 mins) <i>The use of soils data in assessment of risk factors</i> – Allan Lilly, Nikki Baggaley (15 mins) <i>Phosphorus modelling approaches and supporting investigations</i> – Miriam Glendell, Ina Pohle (15 mins) <i>BufferTech project WP2: Spatial characteristics and developments in biodiversity in BSs and implications for the ecological status in streams</i> (Annette Baattrup-Pedersen, 15 min) <i>BufferTech project WP3: Predicting sediment and nutrient retention in buffer strips from surface runoff</i> (Brian Kronvang, 15 min) <i>BufferTech project WP4: Optimization of water and nutrient retention, and</i>	

	<p><i>phytoremediation in engineered BSs</i> (Henning Jensen, 15 min)</p> <p><i>Field margin management in the UK and research initiatives</i> – Marc Stutter, Andrea Baggio (15 mins)</p> <p><i>Achieving delivery of diffuse pollution mitigation in Scotland</i> – Kirsty Blackstock, Susan Cooksley (15 mins).</p>	
12-15 to 13-00	Lunch and demonstration of some catchment models	
13-00 to 17-00	<p>Field visit in River Dee valley for experiences of working with farmers, catchment partnership working and research investigations at Tarland.</p> <p>Talk aspects:</p> <ul style="list-style-type: none"> • Background to the context for working in Tarland and research in the catchment (Marc, JHI) • Working with farmers and the estate to strategically-deliver environmental measures (Steff Ferguson, local advisor). • Catchment partnership working (Susan Cooksley, JHI) • Sediment tracing work in Tarland (Miriam Glendell, Nikki Baggaley, JHI) 	This would involve an hour drive from Aberdeen each way and we would spend a couple of hours at the site.
17-00 to 19-00	Free time in hotel	
~19-00 -	Head into Aberdeen city and dinner ~8 pm	

Thurs 23rd August

Handouts – field trip handout and travel directions.

Time	Activities	Notes
08-30	Leave from JHI for drive to Dundee	
08-30 to 10-40	Land use of upland to lowland Scottish farmed landscapes 'drive and talk' on route to Dundee. Short stop for coffee.	Dundee is ~100 km and 1.5 hour drive from Aberdeen. We can take a drive across the hills to get there on the outward journey but a shorter trip on the main road on the way back.
10-40 to 12-00	Fettercairn distillery tour	
12-00 to 13-15	Drive remaining way to Dundee and to the farm site in convey. Packed lunch to be provided.	
13-15 to 15-15	Visit to Balruddery farm and Centre for Sustainable Cropping (CSC). See the Buffertech site and short talk on activities at the CSC. Meet key JHI Dundee staff at Balruddery.	Leaving here at 15-15 latest would enable being back to Aberdeen airport by 17-30 easily. It is possible to eat basic food at the airport.