**WAVES Highland Retreat – Programme**

Pitlochry, Scotland – September 17th to 21st, 2015

**Wednesday 16th September**

Some Participants Arrive In Edinburgh

20:00 – Gathering: Meet in **No.1 High Street** – **SEE MAP 1 BELOW** – & look for the WAVES logo…

http://www.no1highstreetedinburgh.co.uk/index.php/find-us

Open folk music session from ~9pm – feel free to bring your own instrument or voice!

**Thursday 17th September**

**FloWave at the University of Edinburgh**

10:20 – Meet at FloWave ocean wave simulator – Map 2 below – for demonstration:

http://www.flowavett.co.uk/

**Travel to Pitlochry**

12:00 – Coach leaves FloWave facility for Pitlochry (bring a packed lunch!)

13:45 – Arrive at Athol Palace Hotel, Pitlochry: http://www.athollpalace.com/

14:00 – Coffee and Snack in Bow Lounge

**Afternoon session – Wave theory** (Chair: Andrew Curtis)

14:30-14:45 – The Retreat Process

Andrew Curtis (University of Edinburgh)

14:45-15:30 – Wave types & wave equations

Lapo Boschi (UPMC, Paris)

15:45-16:30 – Solutions (analytical and numerical methods)

Dirk-Jan van Manen (ETH Zurich)

16:30-17:00 – Coffee

17:00-17:45 – From Green’s theorem to interferometry to Marchenko

Kees Wapenaar (Delft Technical University)

19:00 – Dinner

20:30-21:00 – The Airy function: some history, mathematical physics and a tsunami

Chris Chapman (Schlumberger Research)
Friday 18\textsuperscript{th} September

**Morning session 1 – Using Passive Data + Imaging** (Chair: Kees Wapenaar)

- **08:15-08:45** – *Passive Acoustic Remote Sensing of the Ocean*, Oleg Godin (NOAA, Colorado)
- **09:00-09:30** – *McMC Noise Tomography, Exact Sampling & Wave Equation Inversion*, Andrew Curtis (University of Edinburgh)
- **09:45-10:15** – *Extracting Time-Lapse Changes from Chaotic Waveforms*, Roel Snieder (Colorado School of Mines)

- **10:30-11:00** – Coffee

**Morning session 2 – From Theory to Laboratory** (Chair: Lapo Boschi)

- **11:00-11:40** – *Connections between Theory & Laboratories*, Philippe Roux (CNRS, Grenoble)

- **12:00 – 12:45** – Lunch

**Walk to Edradour Whisky Distillery for a Tour and Taste** (begins at 13:15)

**Afternoon session 1 – Laboratories** (Chair: Giovanni Meles)

- **15:00-16:15** Laboratories Short-Presentations (10 minutes each)
  - Catheline, Bell, Favretto, Landro, van Manen

- **16:15-16:45** – Coffee

**Afternoon session 2 – Student Intro’s & Research Venturing Groups 1** (Chair: Andrew Bell)

- **16:45-18:15** PhD Students present themselves – (4 minutes + 3 slides each)

- **18:15-19:15** Venturing Groups 1 - Divergence

- **19:30 – Dinner in Venture Teams** – Divergence
Saturday 19th September

Morning session 1 – Outreach, Applications & Dissemination  (Chair: Sjoerd de Ridder)
09:00-10:00 – Holtzman, Rickett, Vasconcelos, Landro, van Manen

Morning session 2 – Research Venturing Groups 2
10:00-11:00 – Venturing Groups 2 – Final Ideas then Convergence

11:00-11:30 – Coffee

Morning session 3 – Ventures Marketplace
11:30-12:30 – Groups Present Ventures
12:30-12:45 – Sign-Up to Venture Teams

12:45 – Lunch in Venture Teams

Walk up Ben-y-Vrackie – Bring warm & water-proof clothes & sturdy walking boots/shoes
Visit Moulin Inn on way back

Afternoon session – Venture Teams
18:00-19:30 Venture Teams Discussion + Capture Ideas from Walk

19:30 – Dinner + Develop Venture Strategies

20:30-20:50 – WAVES: Progress and Future Objectives, Alexia Carrillo (UPMC Paris)
Sunday 20th September

Morning session 1 – Venture Planning & Presentation

09:00-10:00 – Teams Develop Venture Plans
10:00-11:00 – Presentations of Venture Plans + Final Input/Scrutiny from Audience

11:00-11:30 – Coffee

Morning session 2 – Venture Summaries & Begin Proposal Writing + Research

11:30-13:00 – Teams Summarise Venture Plans + Begin associated proposal-writing/research

12:30 – Lunch

Walk up River & Loch Tummel – Warm & water-proof clothes + walking boots/shoes

Afternoon session – Venture Teams

18:00-19:30 Final Venture Teams Discussion + Capture Ideas from Walk

19:30 – Dinner + Present Final Venture Plans & Progress

⇒ ALL VENTURE PROPOSALS SENT TO Andrew.Curtis@ed.ac.uk BY 13:00 on 21st Sept.

Monday 21st September

09:00 – 11:30 WAVES Planning Meeting for Project Coordination Group (incl. External Advisors)

⇒ Otherwise, Free Morning for other participants. Suggestions of Activities:

Swim/spa in hotel, fishing, walking, cycling, visit Blair Atholl Castle, Killiecrankie battle site, shopping in Pitlochry or House of Bruar, tour of Blair Atholl Whisky Distillery, sleep.

11:45 – Lunch

13:00 – Coach Leaves Pitlochry to arrive at Edinburgh Airport by 3pm

Drop-offs: Edinburgh Airport 2.30pm + Waverley train station 3.15pm + Kings Buildings 3.45pm
MAP 1 – No.1 High Street – meet here at 20:00 on 16th September!

MAP 2 – FloWave Facility – meet here at 10:30 on 17th September!