**October 11th Wednesday**

*Check in from 14:30, buffet supper from 19:30-21:00*

**October 12th Thursday**

7:30 *Breakfast*

8:45 Emilia Urbanek Welcome

**Overview of soil carbon fluxes – models and experiments (Chair Vanessa Bailey)**

9:00 Vanessa Bailey Integration of models and experiments for a process-rich understanding of soil C protection, persistence, and vulnerability

9:15 Will Wieder Knowledge-model integration: microbes, models, and terrestrial biogeochemical cycles

9:30 Eleonor Blyth Recent advances in the representation of soil C in the JULES model

9:45 Jörg Kaduk Integrated land surface and C cycle model (?)

10:00 **Q&A, discussion Data-model integration and optimization**

10:30 *Coffee & Tea Break*

**Microscale processes with large scale implications (1) (Chair Claire Chenu)**

11:00 Claire Chenu Soil structure and organic matter decomposition

11:15 Ruth Falconer A modelling approach to determine the role of the micro-scale in C turnover in soils

11:30 Guy Kirk Root-soil interactions affecting soil C turnover

11:45 Nadezda Vasilyeva Microbially-driven organic matter decomposition in feedback with soil physical structure: mathematical modelling approaches

12:00 **Q&A, discussion Scaling issues in measurement and models**

13:00 *Lunch*

**Microscale processes with large scale implications (2) (Chair Fernando Moyano)**

14:00 Fernando Moyano Linking moisture to soil C dynamics: a look at old and emergent research directions

14:15 Martin Maier Gas transport processes in soil forest ecosystem (?)

14:30 Marta Dondini Evaluation of a soil process-based model using field measurements

14:45 **Q&A, discussion Representation of microscale processes in large scale C models**

15:30 *Coffee & Tea Break*

16:00 **Round table group discussions (Chair Joanna Clark)**

18:30 *Dinner*

**October 13th Friday**

7:30 *Breakfast*

**Climate change and carbon fluxes (Chair Donna Zona)**

8:45 Donna Zona Impact of Climate Change on the greenhouse gas balance the Arctic

9:00 Rob MacKenzie A new forest-scale Free-Air carbon Enrichment (FACE) facility at the Birmingham Institute of Forest Research (BIFoR)

9:15 Joanna Clark Predicting the impacts of environmental change on carbon fluxes in organic soils: challenges and opportunities

9:30 Bogdan Chojnicki Manipulative experiment as a tool of assessment of peatland response to drought and warming

9:45 **Q&A, discussion Largest uncertainties in soil carbon dynamics under changing climate**

10:30 *Coffee & Tea Break*

**Land management practices and carbon storage (Chair Andreas Heinemeyer)**

11:00 Andreas Heinemeyer Where has all the carbon gone: up in smoke? The need to considering management, biota and flux components in soil carbon storage.

11:15 Davey Jones Greenhouse gas emissions from lowland peatlands under agricultural production

11:30 Jennifer Dungaint Valuing SOM in Agri-Systems

11:45 Matthew Wilkinson The role of soil carbon fluxes in the measurement and management of forest carbon balances: a current perspective and future challenges

12:00 **Q&A, discussion**

13:00 *Lunch*

14:00 **Discussion (Chair Davey Jones)**

14:45 **Summary and conclusions**

15:00 *Coffee & Tea Break*

16:00 *End of the meeting, departure*

18:30 *Dinner for remaining participants*