

## Carbon

### DAY 1 - Wednesday 27<sup>th</sup> November 2019

<b>13:30 - 15:30</b>			
<b>Timings</b>	<b>Abstract Number</b>	<b>Title</b>	<b>Presenter</b>
<b>13.30-14.00</b>	<b>N/A</b>	<b>Keynote Speaker:</b> 'Reducing atmospheric CO <sub>2</sub> emissions from industrial sources, domestic and commercial heating in Scotland'	Maxine Akhurst
<b>14.00-14.15</b>	<b>67</b>	Rapid mineralization of natural CO <sub>2</sub> ; a hope for climate mitigation?	Domokos Gyore
<b>14.15-14.30</b>	<b>100</b>	The influence of seagrass on sedimentary characteristics and the role this could play in carbon sequestration in Scottish seagrass meadows	Dani Whitlock
<b>14.30-14.45</b>	<b>114</b>	Carbon metabolism and blue carbon sequestration potential of seagrass beds across Scotland	Irene Olive
<b>14.45-15.00</b>	<b>73</b>	Inputs of leaf and root litter from an advancing arctic treeline species accelerate tundra soil decomposition	Jens Subke
<b>15.00-15.15</b>	<b>74</b>	Tree planting on deep organic soils leads to significantly increased soil respiration and net loss of ecosystem carbon in Scottish heather moorlands	Nina Friggens
<b>15.15-15.30</b>	<b>31</b>	Group Discussion	N/A

### DAY 2 - Thursday 28th November 2019

<b>Parallel #2 Relevance</b>			
<b>09:45 – 10:45</b>			
<b>Timings</b>	<b>Abstract Number</b>	<b>Title</b>	<b>Presenter</b>
<b>09.45-10.15</b>	<b>N/A</b>	<b>Keynote Speaker:</b> "Gathering evidence: expectations vs. reality"	Katriona Edelmann
<b>10.15-10.30</b>	<b>64</b>	Stable isotope study of a natural CO <sub>2</sub> occurrence in the Pannonian Basin	Dora Cseresznyés

10.30-10.45	13	How water potential shifts drive the physical protection of carbon in soil	Rong Qu
<b>Parallel #2 Relevance Continued</b> 11:15 – 12:15			
11.15-11.30	91	Modeling Dynamics in Solids: From Origin of Life to Modern Challenges	Valentina Erastova
11.30-11.45	33	Interactions between ice shelves, sea ice and primary production in the Southern Ocean	Andrew Twelves
11.45-12.00	25	Quantifying Marine Sedimentary Carbon Resources: a new spatial analysis approach using seafloor acoustic data, imagery, and ground-truthing data in Scotland	Corallie Hunt
12.00-12.15	9	Scotland's blue carbon: understanding the loss of carbon from decaying seaweed	Alasdair O'Dell
<b>Parallel #3 Solutions</b> 14:30 – 16:30			
14.30-15.00	N/A	<b>Keynote Speaker:</b> "Peatland restoration in the era of climate change: a blanket to keep us cool?"	Roxane Andersen
15.00-15.15	84	Highlighting the potential of basalt quarry and demolished concrete fines for low-carbon applications: a regional characterisation study.	CARLA C. CASAS
15.15-15.30	60	Spatiotemporal dynamics of methane and carbon dioxide in an urban river	Chao Gu
15.30-15.45	36	Coastal Blue Carbon Resources: Responding to the Global Climate Emergency	William Austin
15.45-16.00	53	Exploring the Role of Terrestrial Carbon in the Coastal Marine Environment	Craig Smeaton
16.00-16.15	69	The Carbon Balance of Permafrost Ecosystems	Lorna Street
16.15-16.30	N/A	Discussions	