

# **CriticalEarth: Dartington Hall Training Event EW4**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **Lecture - Peter Ditlevsen (Turbulence and scaling)**

*Monday, 4 December 2023 09:00 (2 hours)*

Contribution ID: 2

Type: **not specified**

## Exercise/Discussion

*Monday, 4 December 2023 11:00 (2 hours)*

Contribution ID: 3

Type: **not specified**

## **Lecture - Christian Lessig (Machine Learning and Atmospheric Modelling)**

*Monday, 4 December 2023 14:00 (1 hour)*

Contribution ID: 4

Type: **not specified**

## **Group work/projects**

*Monday, 4 December 2023 15:00 (2 hours)*

Contribution ID: 5

Type: **not specified**

## **Lecture - Henrik J Jensen (Complexity and Self Organized Criticality)**

*Tuesday, 5 December 2023 09:00 (2 hours)*

1st hour –Complexity

The systematic study of emergent phenomena.

What is emergence and how to study it. Micro to macro: Characterisation of interdependence and identification of robust macro-structures.

Vortices as an example of emergent macroscopic entities.

2nd hour –Self Organised Criticality (SOC)

Burst, or avalanche, activity.

SOC as stationary intermittency: the nature of the self-generated “critical”state.

Record dynamics: non-stationary intermittency.

Forecasting in high dimensional systems.

Contribution ID: 6

Type: **not specified**

## Exercise/Discussion

*Tuesday, 5 December 2023 11:00 (2 hours)*

Contribution ID: 7

Type: **not specified**

## **Lecture - Christian Lessig (Machine Learning and Atmospheric Modelling)**

*Tuesday, 5 December 2023 14:00 (1 hour)*



Contribution ID: **8**

Type: **not specified**

## **Group work/projects**

*Tuesday, 5 December 2023 15:00 (2 hours)*

Contribution ID: 9

Type: **not specified**

## Communications Training (David Trads)

*Wednesday, 6 December 2023 09:00 (3h 30m)*