



## NZCCRI Seminar Series



### Speaker: Dr Karianne de Bruin

*Senior Research Fellow at the Centre for International Climate and Environmental Research – Oslo (CICERO), Oslo, Norway*

Karianne de Bruin works as a senior research fellow at the Climate Economics Unit of CICERO and leads the newly established 'Planning under uncertainty' Team under this unit. She is an environmental economist and holds a PhD degree from Wageningen University, the Netherlands, on the economic analysis of adaptation to climate change under uncertainty. At CICERO she works on the linkage between micro-level and macro-level economic modelling in the context of climate change, and decision-making under uncertainty related to investments in adaptation to climate change.

### Ranking climate change adaptation options through multi-criteria analysis

An economic analysis of adaptations options requires the identification of alternatives, selection of evaluation methods, data collection and evaluation of the options. Multi-criteria analysis can be a suitable approach to rank and prioritize adaptation options when the quantification and monetary valuation of adaptation options is difficult. Through examples from the Netherlands and India I will review the strengths and weaknesses of the approach for adaptation to climate change.

**Date:** Wednesday 4<sup>th</sup> December  
**Time:** 4 - 5pm  
**Venue:** Cotton Building, Room 228

### Costs and benefits of adapting to climate change; the case of spatial planning and coastal flood protection in the Netherlands

Knowledge on the economic impacts of climate change, associated costs and benefits of adaptation options and the applicability of decision-support tools is increasing. However, there remains a need to gain further insight into the economic effects of the implementation of adaptations options. Results from two case studies from the Netherlands that aim to quantify the costs and benefits of adapting to climate change are presented; (1) costs and benefits of adapting spatial planning to climate change: lessons learned from a large-scale urban development project, and (2) investment in local coastal adaptation under climate change uncertainty.

**Date:** Friday 6<sup>th</sup> December  
**Time:** 12:30 – 1:30pm  
**Venue:** Rutherford House, Lecture Theatre 3