ISSUES IN THE THEORETICAL FOUNDATIONS OF CLIMATE SCIENCE:

SCIENTIFIC AND PHILOSOPHICAL PERSPECTIVES.

ALUMNI HALL, VICTORIA COLLEGE (VC 112), UNIVERSITY OF TORONTO.
NOVEMBER 15, 2018

Climate scientists and philosophers have recently examined some of the issues raised by basic concepts in climate science, including the concepts of climate, climate state, climate sensitivity, radiative forcing and internal variability. These issues include, among others, how to characterize the boundary of the climate system, whether climate states should be partly characterized in physical terms, and how to develop a sufficiently general notion of climate sensitivity. This workshop will bring climate scientists and philosophers together to further illuminate such foundational issues and to consider how they might be addressed in a way that helps to further our understanding of climate and our ability to model it. The workshop will also consider the quantification of uncertainty in climate modelling and climate model-based decision making.

The workshop is supported by the Institute for the History and Philosophy of Science and Technology (University of Toronto), the School of Environmental Science (University of Toronto) and the School of Historical and Philosophical Inquiry (University of Queensland).

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SCHEDULE, NOV. 15:

09:00 - 09:30	Welcome and Coffee
09:30 - 10:15	Climate sensitivity: definitions and evidence - Danny Harvey
10:15 - 11:00	Issues in the Theoretical Foundations of Climate Science - Joel Katzav and Wendy Parker
11:00 - 11:30	Break.
11:30 - 12:15	Multi-model ensembles for the quantification of climate uncertainty - Julie Jebeile
12:15 - 13:15	Lunch.
13:15 - 14:00	What is climate? - Shaun Lovejoy
14:00 - 14:45	On defining climate and climate change - Charlotte Werndl
14:45 - 15:15	Break.
14:45 - 15:30	Climate models as boundary models - Steve Easterbrook
15:30 - 16:15	Precise probabilities and evidence in climate science - Aaron Kenna
18:30	Dinner.

Organisers: Joseph Berkovitz (University of Toronto), Steve Easterbrook (University of Toronto) and Joel Katzav (University of Queensland).

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SPEAKERS.

STEVE EASTERBROOK	Department of Computer Science, University of Toronto.
DANNY HARVEY	Department of Geography, University of Toronto.
JULIE JEBEILE	Philosophie des sciences et Sociétés CEFISES, Université catholique de Louvain.
JOEL KATZAV	School of Historical and Philosophical Inquiry, University of Queensland.
AARON KENNA	Institute for the History and Philosophy of Science and Technology, University of Toronto.
SHAUN LOVEJOY	Department of Physics, McGill University.
WENDY PARKER	Department of Philosophy, Durham University
CHARLOTTE WERNDL	Department of Philosophy, University of Salzburg.

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