

CLIMATE CHANGE: HOW SAFE ARE YOU?

Food, water, disease, health, conflict and your pocketbook and what may be coming down the pipe

A David and Cecilia Ting Endowment Fund Lecture Series

February 5 - March 5, 2015 and Fall 2015



Farming on a Warming Planet

Presented by Dr. Navin Ramankutty, Professor, and Canada Research Chair in Global Environmental Change and Food Security, Liu Centre, UBC, Vancouver

Thursday, February 12, 2015, 7:00 pm,

Room 1400, SFU Harbour Centre, 515 West Hastings

Abstract: Human civilizations have flourished during the Holocene, a period of relatively stable climate. Sedentary agriculture allowed our numbers to skyrocket and we are 7 billion today. But the challenge of feeding humanity continues. Almost 1 in 7 people remain undernourished and our numbers are expected to rise to between 10-12 billion by 2100. At the same time, our current agricultural practices are one of the major causes of global environmental degradation, including climate change. Climate change, in turn, is expected to be severely damaging to our food production system; indeed, it already is. In this talk, I will present a broad overview of this major challenge of our times. How can we feed more people in ways that are less damaging to the environment, while being resilient to the harmful effects of climate change?

Bio: Navin Ramankutty is Professor and Canada Research Chair in Global Environmental Change and Food Security at the Liu Institute for Global Issues and the Institute for Resources, Environment, and Sustainability at the University of British Columbia. His research program aims to understand how humans use and modify the Earth's land surface for agriculture and its implications for the global environment. Using global Earth observations and numerical ecosystem models, his research aims to find solutions to the problem of feeding humanity with minimal global environmental footprint. He was recently selected as an *Aldo Leopold Leadership Fellow* for 2015. He contributed to the *Millennium Ecosystem Assessment* report and to the *Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. He was an editor of the journal *Global Food Security* and is an Associate Editor of *Environmental Research Letters*.

Reservations:

As seating is limited, reservations are recommended: <http://how-safe-are-you-food.eventbrite.com>

Climate Change: How Safe Are YOU? Series <http://www.sfu.ca/coastal/research-series/listing/a-planet-under-pressure.html>

Because global climate change is making us less secure, this series will report on what experts can now see happening to our food and water, to our health and wellbeing, to international conflict, and even to our pocketbook. Loss of security will affect everyone, but there are also pressing ethical dimensions to the unfolding crisis. This series is a call to reasonable, sustained action by us all. We need to lead our leaders.

Upcoming Lectures and Discussions:

February 19, 2015, (environmental health) - The Future Isn't What It Used to Be - Room 1900

Dr. Kristie L. Ebi, Professor, Global Health, University of Washington, Seattle

February 26, 2015, (security) - Welcome to the Pressure Cooker: How Climate Change is Making Our World More Violent and Less Secure - Room 1400

Dr. Marc Levy, Deputy Director, Ctr. for International Earth Science Info. Network, Columbia University, Palisades, NY

March 5, 2015, (ethics and risk) - Safety and Risk: Why Values Matter

Dr. Ingrid Stefanovic, Dean, Faculty of Environment, Simon Fraser University, Burnaby, BC

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