

Session 8 Where can we go from here?



Tim Weiskel

17 November 2016

<u>Transition-Studies</u> Cambridge Climate Research Associates Fall Semester 2016 Where can we turn to learn... ...about climate? Some books to begin with



The New York Times

New England Edition

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VOL. CLXV., No. 57,079

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SUNDAY, DECEMBER 13, 2015

NATIONS APPROVE LANDMARK CLIMATE DEAL



Negotiature of a climate pact achieved what had been unreachable for two decades: agreement from rich and poor countries alike

Visa Screening Missed an Attacker's Zealotry on Social Media

This orticle is by Malt Apuzzo, Michael S. Schwidt and Julia

President. WASHINGTON - Tashleon Malia, who with her hisband curcied out the manuface in 5an Hernardino, Calif., passed three background checks by American insmigration difficials as she. married to the United States from. Pakinasi, Norte uncovered what Ms. Malik had suade little effort. to balls - that she thilded opening

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Had the authorities found the posts years ago, they might have kept her out of the country. But emmigration officials do not routinely perfew social media as part of their background checks, and there is a dohate inside the Department of Homeland Security over whether it is even appropri-

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Traditionally, such pacts have required developed economies tike the United States to take oction to lower green/muse gat emissions, but they have exempted developing coantries like Chiria and Itadia frum speh obliga-

The accord, which United Namons diplomants have been workng toward for supe years. changes that dynamic by requiring action in some form from everv country, rich or poor.

"This is truly a historic moment," the United Nations servtary general, Ban Ki-moon, said in an interview "For the first, time, we have a truly aniversal agreement on climate change, one of the most crucial problems on earth."

President Okania, who regards. tackling elemate change as a central element of his leastly, spoke of the deal in a televised advices. fram the White House. Than agreement sends a powerful saicase what the world is faile coulding taid to a low-curton fature," he said "We've above through the Mark verief inca house one world and that

By CORAL DAVENPORT

In France, Consensus on a Need to Lower Carbon Emissions

LE BOURGET, France - With "Plan S" if the deal fell spart. The Eiffel Deter was illustranated with the station bang of a gavel Sanutday night, representatives of 135 That plurasie Fraday might. The new deal will tax, on its

own, solve global warming. At grouphness gas emissions by about half enough as is receivery Continued on Page 24





An Accord Recognizes Its Own Shortcomings

By JUSTIN GRUEN

LE BOURGE'L France -- Alter the stamping and share an disd. drown, pind the loags and theats ended, a question bung in the air as the clienate custerence came to a close (What does the new deal really mean for the future of the Earth?

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The New York Times

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NEWS ANALYSIS



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Where can we turn to learn?



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Where can we turn to learn?

One obvious place to turn is the schools, colleges & universities...





HARVARD Extension School

Academics

s Tuition & Enrollment

Resourc

ENVR E-106 Envisioning a Sustainable Future: Managing and Protecting the Environment

Spring Term 2017 CRN 24808

It is widely recognized by the scientific community that current trends in our collective human behavior are not sustainable. Populations are growing at rates that cannot be maintained as food supplies per capita decline and the ecological costs of providing energy and materials for many people exceed the regenerative capacities the ecosystems upon which they depend. In addition, the waste products of our increasingly urbanized and consumer-oriented civilization have now reached the point of compromising the restorative functions of the biogeochemical cycling systems required for human survival. In response to these demonstrable trends numerous outstanding thinkers and environmental leaders have begun to envisage and implement strategies for a sustainable future. This course exposes students to innovative thinkers and inspired activists over a wide range of fields engaged in the transition to sustainability.

COURSE INFORMATION

...merging the insight & knowledge of many...

Spanning Oceans - Bridging Traditions: Learning About Global Climate from Oxford Cambridge Harvard Yale... etc.





Creating new portals for global climate learning.

One other place to start is....

Transition Studies

Exploring the Transition to a Sustainable Future on a Finite Planet



http://Transition-Studies.Net

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Transition Studies

Exploring the Transition to a Sustainable Future on a Finite Planet



http://Transition-Studies.Net Big advantage: It's free...!

Explore the "drop-down" menus...

Transition Studies

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OTHER RESOURCES





FILMS

Citizens' Guides to Learning

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Where Can We to Turn to Learn ...?

A CITIZEN'S GUIDE TO SELECTED RESOURCES FOR SELF-EDUCATION IN TRANSITION STUDIES





Explore the "drop-down" menus...

Transition Studies

Exploring the Transition to a Sustainable Future on a Finite Planet



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OTHER RESOURCES





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Where can we turn to learn... ...about climate? Some books to begin with ...

A CITIZEN'S GUIDE TO SELECTED RESOURCES FOR SELF-EDUCATION IN TRANSITION STUDIES



Where can we turn to learn... ...about climate? Some further books – (2) ...

A CITIZEN'S GUIDE TO SELECTED RESOURCES FOR SELF-EDUCATION IN TRANSITION STUDIES



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The Collapse of Western Civilization: A View from the Future: Naomi Oreskes, Erik M. Conway

Posted on August 7, 2014 | Leave a comment | Edit

The year is 2393, and the world is almost unrecognizable. Clear warnings of climate catastrophe went ignored for decades, leading to soaring temperatures, rising sea levels, widespread drought and finally - the disaster now known as the Great Collapse of 2093, when the disintegration of the West Antarctica Ice Sheet led to mass migration and a complete reshuffling of the global order. Writing from the Second People's Republic of China on the 300th anniversary of the Great Collapse, a senior scholar presents a



gripping and deeply disturbing account of how the children of the Enlightenment — the political and economic elites of the so-called advanced industrial societies — failed to act, and so brought about the collapse of Western civilization.

The Collapse of Wes Future: Naomi Oresl

Posted on August 7, 2014 | Leave

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THE COLLAPSE OF WESTERN CIVILIZATION

NADMI ORESKES AND ERIK M. CONWAY

A VIEW FROM THE FUTURE

The Discovery of Global Warming: Revised and Expanded Edition (New Histories of Science, Technology, and Medicine): Spencer R. Weart

Posted on January 28, 2015 | Leave a comment | Edit

In 2001 a panel representing virtually all the world's governments and climate scientists announced that they had reached a consensus: the world was warming at a rate without precedent during at least the last ten millennia, and that warming was caused by the buildup of greenhouse gases from human activity. The consensus itself was at least a century in the making. The story of how scientists reached their conclusion-by way of unexpected twists and turns and in the face of formidable intellectual, financial, and political



obstacles-is told for the first time in *The Discovery of Global Warming*. Spencer R. Weart lucidly explains the emerging science, introduces us to the major players, and shows us how the Earth's irreducibly complicated climate system was mirrored by the global scientific community that studied it.

The Discovery of C Expanded Edition Technology, and M

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The Discovery of Global Warming

February 2015

A hypertext history of how scientists came to (partly) understand what people are doing to cause climate change.

as a single story. On this Website you will find a more complete history in dozens of essays on separate topics, occasionally updated.

If you want basic facts about climate change, or detailed current technical information, you might do better using the <u>links</u> page. But if you want to use history to *really* understand it all...



Second edition, revised and updated (2008)

Joe Romm | Climate Change: What Everyone Needs to Know

Posted on January 1, 2016 | Leave a comment | Edit



CLIMATE CHANGE

WHAT EVERYONE NEEDS TO KNOW

JOSEPH ROMM

Climate change will have a bigger impact on humanity than the Internet has had. The last decade's spate of superstorms, wildfires, heat waves, and droughts has accelerated the public discourse on this topic and lent credence to climatologist Lonnie Thomson's 2010 statement that climate change "represents a clear and present danger to civilization." In June 2015, the Pope declared that action on climate change is a moral issue.

This book offers the most up-to-date examination of climate change's

foundational science, its implications for our future, and the core clean energy solutions. Alongside detailed but highly accessible descriptions of what is causing climate change, this entry in the *What Everyone Needs to Know* series answers questions about the practical implications of this growing force on our world:


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WHAT EVERYONE NEEDS TO KNOW[°]

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Climate Science Basics

What is the greenhouse effect and how does it warm the Earth? Why are scientists so certain the climate system is warming?

How does global warming increase sea levels and what has been observed to date?

Where does most of human-caused warming go?

What fraction of recent global warming is due to human causes versus natural causes?



XIII

1 Climate Science Basics



Why are scientists so certain the climate system is warming?

How does global warming increase sea levels and what has been observed to date?

Where does most of human-caused warming go?



PREFACE: WHY YOU NEED TO KNOW ABOUT CLIMATE CHANGE XIII ACKNOWLEDGMENTS XXIII Climate Science Basics What is the greenhouse effect and how does it warm the Earth? 2 Why are scientists so certain the climate system is warming? How does global warming increase sea levels and what has been observed to date? Where does most of human-caused warming go? 6 What fraction of recent global warming is due to human causes 7 versus natural causes?

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What are the climate system's amplifying feedbacks that turn a moderate initial warming into a big ultimate warming?	13
Is the current level of atmospheric CO ₂ concentration unprecedented in human history?	15
Are recent climatic changes unprecedented?	17

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Etc., etc... more than 300 pages of Q & A !

This Changes Everything: Capitalism vs. The Climate: Naomi Klein

Posted on January 28, 2015 | Leave a comment | Edit



The most important book yet from the author of the international bestseller *The Shock Doctrine,* a brilliant explanation of why the climate crisis challenges us to abandon the core "free market" ideology of our time, restructure the global economy, and remake our political systems.

In short, either we embrace radical change ourselves or radical changes will be visited upon our physical world. The status quo is no longer an option.



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Movie



This Changes Everything: Film Screening + Discussion Tickets, Sat, Feb 20, 2016 at 2:00 PM | Eventbrite

Posted on February 7, 2018 | Leave a comment



What if confronting the climate crisis is the best chance we'll ever get to build a better world?

The End of Nature: Bill McKibben

Posted on January 30, 2016 | Leave a comment | Edit

Reissued on the tenth anniversary of its publication, this classic work on our environmental crisis features a new introduction by the author, reviewing both the progress and ground lost in the fight to save the earth.

This impassioned plea for radical and life-renewing change is today still considered a groundbreaking work in environmental studies. McKibben's argument that the survival of the globe is dependent on a fundamental, philosophical shift in the way we relate to nature is more relevant than ever.



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In the same year as Bill's book...Jim Hansen testified...



23 June 1988

Censoring Science: Inside the Political Attack on Dr. James Hansen and the Truth of Global Warming: Mark Bowen

Posted on January 30, 2016 | Leave a comment | Edit



MARK BOWEN

a) Warming behind global warming that they do not want you to know.
 NG The facts don't lie:
 a) 2005 was the warmest year since

2005 was the warmest year since the invention of the thermometer.
2006 is on track to become the hottest year ever recorded in the United States.

From acclaimed writer and

of the world's preeminent

climatologist, and the science

physicist Mark Bowen, Censoring Science tells the true story of the

Bush administration's censorship

The six hottest years on record have

occurred in the last eight years, and the twenty-two hottest years on record have occurred in the last twenty-six years.

Censoring Science: James Hansen and Mark Bowen

Posted on January 30, 2016 | Le



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CENSORING SCIENCE

Storms of My Grandchildren: The Truth About the Coming Climate Catastrophe and Our Last Chance to Save Humanity

Posted on January 25, 2015 | Leave a comment | Edit

"Reach down the best, most informative, initiantly written book on general climate science Type over read." — Carly Jay

THE TRUTH ABOUT THE GOMING CLIMATE CATASTROPHE AND OUR LAST CHANCE TO SAVE HUMANITY

OF MY GRANDCHILDREN

JAMES HANSEN

PERSONAL A TAX WITH BILL MINISPER

In his Q&A with Bill McKibben featured in the paperback edition of Storms of My Grandchildren, Dr. James Hansen, the world's leading climatologist, shows that exactly contrary to the impression the public has received, the science of climate change has become even clearer and sharper since the hardcover was released. In Storms of My Grandchildren, Hansen speaks out for the first time with the full truth about global warming: The planet is hurtling even more rapidly than previously acknowledged to a climatic point of no return. In explaining the science of

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JAMES HANSEN

New York Print America Science

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The conventional answer is that a popular uprising



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A. "Dark Money"



Q. With all the dedicated life-long commitment of scientists to the study of climate change why is the public still so uniformed and just plain ignorant?

A. "Dark Money" Rich Corporations and rich individuals have financed public confusion...



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Anyone who objects to pipelines and



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Even President Bush's top climate modeler, Jim Hansen,



warned in 2005 that "we are on the precipice of climate system tipping points beyond which there is no redemption."

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