

Welcome to the

Second Annual Climate Summit: “Turning the Tide”

Hosted by the Class of 1986 in collaboration with the Princeton University
Speakers Bureau

Sunday, November 12 at 12:00 p.m. ET

- 12:00: **WELCOME** **Elisabeth Rodgers**, President, Class of 1986
- 12:05: **INTRODUCTION** **Kiku Loomis**, Environment Chair, Class of 1986,
Sustainability Strategy Advisor
- 12:10 **KEYNOTE ADDRESS** **Professor Elke Weber**
Professor of Psychology & Public Affairs;
Gerhard R. Andlinger Professor in Energy & the
Environment

1:00 pm **BREAKOUT SESSION I:**

1. Understanding the impact of industrial animal agriculture on our planet: food systems and climate change

The massive agricultural system that supports modern-day meat and dairy production puts an untenable strain on natural resources, sucking up water aquifers at phenomenal rates, decimating fragile eco-systems, driving deforestation, eradicating indigenous species, and producing more greenhouse gas emissions than all cars, planes, trains and ships combined. In this session we will review the data on the intersection of agricultural systems and climate change, collectively explore ways to build climate-friendly food systems, and discuss delicious approaches to climate-aware eating.

Katya Burns '86, Policy, Public Health and Human Rights Consultant / United Nations Development Programme
Facilitator, Mary Johnson '86

2. The Water and Climate Nexus

Climate change is altering the water cycle and hydrology of the planet in dramatic and dangerous ways. At the same time, an enormous amount of energy is used to heat, treat, and pump water for human use, exacerbating the problem. This session will discuss these phenomena and what we can do about it.

Jim Waltman '86, Executive Director - The Watershed Institute
Todd A. Laurence '86, Adjunct Professor, Oregon State University
Head of Business Development, LeapFrog Design
Facilitator, Dave Hicks '86

3. **Divest Princeton**

A presentation to demystify divestment, give an update on the situation at Princeton and show the powerful impact that we as alumni can have through divestment.

Lynne Archibald, '87 P16, Environmental organizer/Divest Princeton
Facilitator, Julia de Peyster '86

1:40 pm **BREAK**

1:45 pm **BREAKOUT SESSION II**

1. **Decarbonization and the Role of Carbon Markets**

Carbon markets can be an important tool to support efforts to decarbonize the global economy and reach Net Zero. In particular, they can enable companies or individuals to invest in projects that reduce greenhouse gas (GHG) emissions or draw down CO₂ from the atmosphere as a way of compensating for emissions that cannot be avoided. To date, however, their usefulness has been limited because they have come under significant scrutiny, which has undermined trust in them. In addition, carbon markets have been unable to scale due to the complicated nature of the rules and requirements that govern them. This session will provide an overview of carbon markets and explain some of the main challenges they face.

Dave Antonioli '86, Independent Advisor on Climate Change
Facilitator, Peter Wayner '86

2. **Building Green**

A conversation about the climate effects of the built environment, with a particular focus on carbon-storing materials, and the financial resources to effect change.

Carl Walsh '86, Founder - Energy Reduction Coalition
Anni Tilt '86, Principal - Arkin Tilt Architects
Facilitator, Laura Shabe '86

3. **Beavers: A North American Climate Action Plan**

Beavers were once ubiquitous in North America but wiped out through the fur trade. We discuss how beavers, nature's water engineers, can play a role in restoring watersheds and ecosystems to build resistance to the impacts of climate change.

Leila Philip '86, Brooks Chair in the Humanities and Professor in the English Department, Environmental Studies Program - College of the Holy Cross
Facilitator, Dave Hicks '86

4. **Democracy & Climate**

We face a world divided among nation-states, a prevailing technological paradigm, and an economic system that altogether seems incapable of stopping the exploitation of our natural environment beyond its limits. What mechanisms can we devise for making collective decisions that ensure a balance between our needs and Earth's possibilities?

Carlos Rufin '86, Professor Public Service and International Business, Suffolk University, and President of the Institute for International Urban Development Facilitator, Julia de Peyster

2:25 **CLOSING ADDRESS**

How to Talk About Climate at the Thanksgiving Table

Hints, tips, and tricks for talking about climate change with doubters, skeptics, and people who are not hopeful things will change in time. The session will also explore research on why many of us continue to hold false or unhelpful views on climate.

Charles Wohlforth '86 - Author of *The Whale and the Supercomputer* and other books

2:45 **ADJOURN**

About the Climate Summit

The Class of '86 is holding this series for alumni from all classes to share expertise and information about climate change solutions across a wide range of disciplines, both to raise awareness and accelerate action. By sharing our efforts across decades of Princeton alumni, we have the unique opportunity to build a powerful force for good in a time when it is urgently needed, and together raise hope that we will indeed solve this crisis.

About the Speaker

PROFESSOR ELKE WEBER, KEYNOTE SPEAKER

Gerhard R. Andlinger Professor in Energy and the Environment and Associate Director for Education, Andlinger Institute. Professor of Psychology and Public Affairs. Fellow of Princeton Institute for International and Regional Studies and High Meadows Environmental Institute, Princeton University

Elke Weber is a cognitive psychologist and behavioral decision theorist and professor at Princeton University, with appointments in engineering, SPIA, and psychology. Weber is a pioneer in melding theory and tools from psychology, economics, sociology, political science, philosophy, ecology, and evolutionary biology to understand human decision making in complex situations, in particular responses to the threat posed by climate change. Weber has been documenting psychological and socio-cultural processes within the general public as well as policy makers that function to delay the clean energy transition. Most recently she has led the way in exploring how social identity, social networks, social norms, norm clusters, and the dynamics of changes in social norms influence judgment and choice and has illustrated how this knowledge can be used to create decision environments (“choice architecture”) and social network interventions that hold promise for altering behaviors to advance climate policy goals.

Her expertise in behavioral decision sciences has been sought by advisory committees and boards of the National Academy of Sciences, Engineering, and Medicine (including the Board on Atmospheric Sciences and Climate, since 2021), a joint commission of the Nachhaltigkeitsrat (Sustainability Council) of the German government and the German National Academy of Sciences Leopoldina (2020 – 2021), and the US Environmental Protection Agency (as member of its Science Advisory Board, 2014 – 2017). She serves as Lead Author for Working Group III (Mitigation) for the 5th and 6th Assessment Reports of the UN IPCC, and on Science Advisory Boards of the Beijer Institute at the Royal Swedish Academy of Sciences, the Stockholm Resilience Center, and the International Institute for Applied Systems Analysis (IIASA). She has been a member of Board of Trustees of Rare, an environmental and conservation NGO, since 2020. In the past she served on Science Advisory Boards of the American Council for an Energy-Efficient Economy (ACEEE, 2015 – 2019) Fondazione Eni Enrico Mattei (FEEM, Milan, Italy, 2017 – 2019) and the Institut du Développement Durable et des Relations Internationales (IDDRI, SciencesPo, 2014 – 2019).

About the Panelists

In addition to each bio, we include a list of resources to learn more about the subject and recommendations on things you can do to address climate change.

ANNI TILT '86

Principal of Arkin Tilt Architects

Three-time winner of the Acterra Business Award for the Sustainable Built Environment and numerous design awards, their work has been published nationally and internationally for excellence in design and sustainability.

Resources:

- Rocky Mountain Institute: <https://rmi.org/>
- Carbon Leadership Form: <https://carbonleadershipforum.org/>
- Ecological Building Network: <https://www.ecobuildnetwork.org/>
- Architecture 2030: <https://www.architecture2030.org/>
- Build Beyond Zero: <https://islandpress.org/books/build-beyond-zero>
- The New Carbon Architecture (widely available book)
- Design the Future podcast: <https://www.designthefuturepodcast.com/>
- Wood sourcing <https://www.climatesmartwood.net/>
- California Straw Building Association: <https://www.strawbuilding.org/>
- Bamboo panelized wall system: <https://www.bamcore.com/>
- Hemp Based products: <https://www.hempitecture.com>
- Straw insulation panel: <https://durrapanel.com/>

Things you can do:

1. Make your home all-electric and install photovoltaic panels and insist on renewable energy generation from your local utility
2. Build (or remodel) with rapidly-renewable biogenic materials
3. Keep natural carbon sinks intact: forests, prairies, wetlands, etc. - no toilet paper from virgin boreal forests!
4. Spread the word - it is going to take all of us!

CARL WALSH '86

Founder - Energy Reduction Coalition

Since 1980, I have focused on addressing social problems resulting from lack of human cooperation with respect to resource allocation. My approach is best described as systemic risk problem solving. For the last 13 years I have addressed climate stewardship via the Energy Reduction Coalition, which provides to any organization in the USA risk-reduced access to more sustainable infrastructure.

Things you can do:

1. Each of us can reduce energy use, reduce food consumption, and reduce time, attention, and financial resources applied to frivolous or insignificant objectives. (“Waste not, want not.”)
2. Alternative materials, technology, and approaches exist that can dramatically improve environmental quality, but lean organizations do not take advantage of these and even allow known waste to continue (“if it’s not broken, don’t fix it”) while they “fight the fires at their feet.”
3. Each of us can reach out to anyone we know in organizations we believe may benefit from adopting more sustainable infrastructure and help them find the resources they need to proactively upgrade before it becomes their “fire”.

CARLOS RUFIN '86

Professor of Public Service and International Business at Suffolk University's Sawyer Business School

President of the Institute for International Urban Development.

Carlos combines his practice-oriented work with academic activity, teaching and conducting research on infrastructure-related governance, multi-stakeholder partnerships and sustainable urbanization. He has also worked as an independent consultant for organizations such as the World Bank, the Inter-American Development Bank, and the United States Agency for International Development, on projects related to infrastructure development, Public-Private Partnerships, renewable energy, access to basic services, and regulatory reform and governance. He is the author of two books and numerous articles in major international journals. He received a PhD in Public Policy from Harvard University, as well as an M.A. degree in Economics from Columbia University and a BA in Economics from Princeton.

Resources:

- Roman Krznaric, “Four ways to redesign democracy for future generations,” Open Democracy, July 12, 2020
<https://www.opendemocracy.net/en/transformation/four-ways-redesign-democracy-future-generations/>
- You can find a more extended discussion in Krznaric's book, “The Good Ancestor: How to Think Long Term in a Short-Term World” (Penguin Random House, 2020).
- K. Raworth, "Doughnut Economics—7 Ways to Think Like a 21st Century Economist," Chelsea Green Publishing: White River Junction, Vermont, 2017.

Things you can do:

1. Get involved! Individual changes are not enough, because this is a systemic issue. Find a way to encourage more radical action by our policymakers.
2. Spread the word. Engage those who prefer to deny or who are too discouraged to act.
3. Consider your own choices, both in your personal and in your professional life.

CHARLES WOLFORTH '86

Author of The Whale and the Supercomputer and other books

Charles Wohlforth is author of more than a dozen books and numerous articles. His books include work about science and the environment, politics and history, medicine, and collaborative work, including as-told-to biography. His book "The Whale and the Supercomputer: On the Northern Front of Climate Change," won the L.A. Times Book Prize in 2004. His most recent book, co-authored with Dr. David Nash, was "How Covid Crashed the System: A Guide to Fixing American Health Care."

Wohlforth graduated magna cum laude from Princeton University in 1986 before returning to Alaska, where he continued to live until moving to New Jersey in 2019.

Things you can do:

1. Vote and give to candidates who prioritize climate action.
2. Take action in your own life and make it visible--peer pressure works!
3. Concentrate on the positive: carrots rather than sticks, optimism rather than doomsaying.

DAVID ANTONIOLI '86

Independent Advisor on Climate Change

Prior to working at Verra, David worked for EcoSecurities in Oxford (UK) where he led a joint venture to develop landfill gas-to-energy projects worldwide. At EcoSecurities David also worked on key infrastructure and procedural needs for the then nascent voluntary carbon market.

David began his international work at ICF Consulting where he developed projects to recover/recycle ozone-depleting refrigerants in countries around the world, supported several Latin American countries developing their GHG inventories, and served on the team that verified the emission reductions achieved by one of the earliest GHG emission reduction projects. David then joined the United States Agency for International Development (USAID) in Mexico as its global climate change advisor where he oversaw efforts to develop baselines for both energy and forest sector projects.

Born and raised in Mexico City for 15 years, David lives in Bethesda, Maryland with his wife and two children. He has an Undergraduate degree in Sociology and American Studies from Princeton University, a Master's degree in Environmental Policy and Sustainable Development from Harvard's Kennedy School of Government in Public Policy, and a Certificate in Business from Georgetown's McDonough School of Business.

Things you can do:

1. Measure your carbon footprint.
2. Take action to reduce your carbon footprint (e.g., install solar panels, buy an EV, fly less).
3. Purchase carbon offsets.

JIM WALTMAN '86

Executive Director - The Watershed Institute

Jim Waltman has more than thirty years of experience in the nonprofit conservation field at the local, state, and federal level. Since 2005, he has served as executive director of The Watershed Institute (<https://thewatershed.org/>), a non-profit science-based education and advocacy organization focused on protecting and restoring clean water and healthy watersheds in New Jersey. Jim is also a founding board member of ReThink Energy NJ, a non-profit organization that seeks a rapid transition from fossil fuels to clean, renewable energy, and was a founding board member of the New Jersey League of Conservation Voters. He served as a member of the State Agriculture Development Committee, a NJ Senate confirmed position overseeing New Jersey's farmland preservation program from 2008 until May 2023.

Prior to joining The Watershed Institute, Jim worked for the National Wildlife Federation, National Audubon Society, and The Wilderness Society in Washington, D.C, representing those organizations for a total of 15 years on issues relating to wildlife conservation, Alaska public lands, endangered species recovery, water allocation in the American west, and other matters before Congress, federal agencies, the media, and the public.

Jim received a bachelor's degree in biology from Princeton University and a master's degree in environmental studies from the Yale School of Environmental Management.

Resources:

- Replenish: The Virtuous Cycle of Water and Prosperity, by Sandra Postel (2017)
- Troubled Water: What's Wrong with What We Drink, by Seth Siegel (2020)
- Toms River: A Story of Science and Salvation by Dan Fagin (2013)
- Cadillac Desert: The American West and Its Disappearing Water (1986)
- Fostering Sustainable Behavior Doug McKenzie-Mohr (2011)

Things you can do:

1. Advocate for climate action with your local, state, and federal elected officials.
2. Understand the climate impacts of your consumption habits and make changes accordingly.
3. Assess and reduce your water footprint (in addition to your carbon footprint).

KATYA BURNS '86

Independent Consultant / United National Development Programme

Katya Burns is a political scientist, human rights advocate and independent consultant in public health to the United Nations, bi-lateral governmental donors, and international NGOs. She has worked with the Green Climate Fund and the Culture and Animals Foundation on the impact of

industrial animal agriculture on the United Nations' Sustainable Development Goals. Katya holds a PhD in Political Economy from the Massachusetts Institute of Technology, has spent over 15 years living and working on public health and human rights in Eastern Europe, Asia and Africa, and speaks French, Russian, Chinese and Japanese.

Resources:

- Annie & Dan Shannon, *Betty Goes Vegan*; Isa Chandra Moskowitz & Terry Hope Romero, *Vegan Cupcakes Take Over the World*.
- Peter Singer, *Animal Liberation Now: The Definitive Classic Renewed*. 2023.
- [United Nations Food and Agriculture Organization, *Livestock's Long Shadow: environmental issues and options*](#)
- [Chatham House, *Livestock – Climate Change's Forgotten Sector*](#). 2014.
- [Zane Swanson, Caitlin Welsh, and Joseph Majkut, *Mitigating Risk and Capturing Opportunity: The Future of Alternative Proteins*](#).
- [Video: *Cowspiracy: the Sustainability Secret*](#).

Things you can do:

1. Buy a vegan cookbook and try out the recipes
2. Watch *Cowspiracy*
3. Engage with and build community. Possible activities could include starting or joining a [meet-up group](#); investing in [alternative proteins](#); attending animal law seminars such as those offered through Yale Law School's [Law, Ethics and Animals Program](#), Harvard Law School's [Animal Law and Policy Program](#) and New York University's [Animal Studies Program](#); participating in the [Save Movement](#), or supporting [open rescue](#).

KIKU LOOMIS '86, HOST

Sustainability Strategy Consultant

Kiku has been active in the field of sustainability for over 20 years. In 2000, she founded World Monitors, a consulting firm specializing in the emerging field of business and human rights, and Fair Factories Clearinghouse, a tech based platform to help brands and retailers collaborate to improve factory conditions. Following that, Kiku held roles at PVH, the owner of Calvin Klein and Tommy Hilfiger, and Rainforest Alliance, where she oversaw the Rainforest Alliance “frog” certification. As a sustainability strategy consultant, Kiku has advised numerous global Fortune 500 companies on how to strengthen their sustainability programs, mitigate risk, and drive positive impact.

Kiku has a bachelor's degree from Princeton University in Anthropology, and an MBA from INSEAD.

Things you can do:

1. Vote
2. Get out the vote
3. Get involved in a local group, or at your company, to reduce greenhouse carbon emissions.

LEILA PHILIP '86

Brooks Chair in the Humanities and Professor in the English Department, Environmental Studies Program - College of the Holy Cross

Leila Philip is an award-winning author whose most recent book, *Beaverland*, is a New York Times Editor's Choice and NPR Science Friday Book Club selection which The Wall Street Journal called "as full of charm and wonder as its beguiling protagonist."

A Guggenheim Fellow, Philip has also been awarded fellowships from the National Endowment for the Arts and the National Endowment for the Humanities. She was a popular contributing columnist at the Boston Globe and teaches in the Environmental Studies Program at the College of the Holy Cross where she holds the Brooks Chair in the Humanities.

She received a B. A from Princeton with a Fifth Year Degree in East Asian Studies as well as an M.F.A from Columbia. In 1992 she was a Fellow at the Bunting Institute at Radcliffe, now the Harvard Radcliffe Research and Study Center.

Resources:

- *The Beaver Institute* <https://www.beaverinstitute.org/> (Great site for information and resources)
- *Water's Way: Thinking Like A Watershed*: Chesapeake Bay Journal 2021 doc film by Dave Harp, Tim Horton and Sandy Cannon-Brown <https://www.pbs.org/video/waters-way-thinking-like-a-watershed-70epzm/>
- *The Beaver Believers*. Sarah Koenigsberg (doc film) <https://www.thebeaverbelievers.com/>

Things you can do:

1. You can find out about the river system where you live by going to the EPA website [How's My Waterway](#), which will tell you what watershed you live in and the condition of its waters. If you are lucky, you might discover that you already have some beavers living nearby.
2. Then do what you can on a local, state, and national level to help protect it.
3. Do what you can to get involved. Start by contacting your local conservation commission and watershed protection group. And use what you will have learned when you vote.

LYNNE ARCHIBALD '87

'87, P16, Environmental organizer/Divest Princeton

Originally from Canada, Lynne has lived most of her life after Princeton in Lisbon, Portugal. She is an experienced nonprofit board member and has increasingly focussed on climate for the last 10 years. Like the other members of Divest Princeton who will be answering questions with her, she is motivated by hope.

Resources:

Article:

- [The Powerful New Financial Argument for Fossil-Fuel Divestment by Bill McKibben](#) in The New Yorker

Books:

- [Slow Violence and the Environmentalism of the Poor](#) by Rob Nixon
- [Merchants of Doubt](#) by Eric Conway and Naomi Oreskes
- [This Changes Everything by Naomi Klein](#)

Videos:

- PBS 3-part 2022 series "[The Power of Big Oil](#)"
- Al Gore's July 2023 Ted Talk "[What the fossil fuel industry doesn't want you to know](#)"

Things you can do:

1. Join a climate group. Supporting existing efforts is more effective than trying to reinvent the wheel. To start helping [Divest Princeton](#), sign our [Open Letter](#) and share it with your classmates. [divestprinceton.com](#)
2. Change what is possible for you to change in your daily life - drive less, use public transit, fly less, eat less meat, get a heat pump, install PV panels, divest your personal investments, switch to a fossil free bank, vote for climate candidates, stop mowing your lawn, plant a pollinator garden. Then share what you're doing with friends and family so they can do it too.
3. Question everything and try to learn the answers for yourself. Be a critical thinker and be prepared to hear some tough truths. Then circle back to hope and joy and action.

TODD LAURENCE '86

Adjunct Professor, Oregon State University

Head of Business Development, LeapFrog Design

Todd Laurence is an adjunct professor of Entrepreneurship at Oregon State University, and a fractional sales leader for early stage startups. In this capacity Todd leads business development for LeapFrog Design, an Oregon-based company pioneering sustainable graywater treatment. LeapFrog is bringing to market a modular constructed wetland solution that treats residential graywater at the source. We leverage "Nature's Intelligence", using only plants, soils, and microbes to purify graywater for reuse in toilet flushing, irrigation, and other non-potable uses.

Things you can do:

1. Live small
2. Advocate locally
3. And most of all, be kind to Mother Earth in every way possible