



16-17
September
2016

HARVARD GLOBAL INSTITUTE
ENVIRONMENT INITIATIVE
FACULTY WORKSHOP

The Harvard Global Institute (HGI) was founded by President Drew Faust in October 2015 to support scholarship and programs that will deepen Harvard's international engagement and promote University-wide research on major global challenges.

As part of the HGI, the Environmental Humanities Initiative (Environment Initiative) — currently in its seed-grant phase — is dedicated to developing multifaceted interdisciplinary research programs focused on how human communities from earliest times to the present, within and across national borders, grapple with ecological challenges. In the spirit of the first HGI grants, the HGI Environment Initiative is China-inclusive, not China-exclusive.

This weekend's workshop, the first of its kind at Harvard, brings together faculty members, postdoctoral fellows, and graduate students from 10 Harvard schools — Harvard Business School, Harvard Divinity School, Faculty of Arts and Sciences, Graduate School of Design, Harvard Graduate School of Education, Harvard John A. Paulson School of Engineering and Applied Sciences, Harvard Kennedy School, Harvard Law School, Harvard Medical School, and Harvard T.H. Chan School of Public Health — as well as several leading scholars from outside the university.

Participants have been asked to talk briefly about the kinds of questions they ask, the methodologies they deploy, and the types of materials they use in their research on environmental challenges, as well as about the impact of their work. The objectives are 1) to introduce to one another colleagues working on environmental challenges in different fields/Harvard schools, and 2) to help us think together about the kinds of future collaborative work across fields, disciplines, and schools — both in research and in teaching — that are most needed going forward and which we should highlight in the Environment Initiative full funding proposal to be submitted to the university in July 2017.

The environmental humanities are an emerging transdisciplinary enterprise that is becoming a key part of the liberal arts and an indispensable component of the twenty-first century university. This field brings together scholars from a wide range of disciplines (including but also extending far beyond the humanities), providing a shared space in which to engage with some of the planet's greatest environmental challenges. Ultimately, the aim is to promote the cultural transformations necessary for reducing ecological devastation and anticipating an increasingly uncertain and potentially traumatic future.

The European Science Foundation Responses to Environmental and Social Challenges for Our Unstable Earth (RESCUE) Initiative has proposed a Radically Inter- and Transdisciplinary Research Environment (RITE) model — one already used in medicine — "to ensure that all relevant knowledge is harnessed collaboratively from the outset when approaching a problem, and no single discipline maintains overall dominance." This is precisely what we are endeavoring to achieve at Harvard.


Welcome!

Karen Thornber

Director, Harvard Global Institute Environmental Humanities Initiative
Professor of East Asian Languages and Civilizations and of Comparative Literature
Victor and William Fung Director, Harvard University Asia Center
Chair, Harvard University Council on Asian Studies



MESSAGE FROM THE DIRECTOR



FRIDAY SCHEDULE

Friday, September 16, 2016

8:00am - 8:30am — Breakfast/Coffee and Registration (Room S030)

**8:30am - 8:40am — Introductory Remarks by Karen Thornber
(Room S020)**

Panel 1 — 8:45am - 10:15am

Mike McElroy

Dan Schrag

Emmanuel Akyeampong

Xiaoxuan Lu

Jennifer Nash

Discussant: Peter Perdue

Panel 2 — 10:20am - 11:50am

Ned Friedman

Ian Miller

Gillian Osborne

Kristen Stilt

Chris Green

Discussant: Stephanie LeMenager

LUNCH — 11:50am - 1:00pm (Room S030)

Panel 3 — 1:00pm - 2:30pm

David Christiani

Joseph Brain

Jeffrey Schnapp

Sophia Roosth

Discussant: Ling Zhang

Panel 4 — 2:35pm - 4:05pm

Frank Clooney

Benny Schaffer

Amy Zhang

Doris Sommer

Mariano Siskind

Discussant: Stephanie LeMenager

COFFEE BREAK — 4:05pm - 4:20pm**Panel 5 — 4:20pm - 5:50pm**

Rema Hanna

Corey Byrnes

James Robson

Tina Grotzer

Peter Galison

Discussant: Sara Pritchard

OPEN DISCUSSION (full group) — 6:00pm - 6:45pm — facilitated by Peter Perdue

DINNER: 7:00pm — Harvard Faculty Club - North Dining Room, 20 Quincy Street

All panels take place on the lower level of the CGIS South Building, 1730 Cambridge Street in Cambridge, in the Belfer Case Study Room, S020.

Coffee breaks and lunches take place in S030, also on the lower level of the CGIS South Building.



SATURDAY SCHEDULE

Saturday, September 17, 2016

8:30am - 9:00am — Breakfast/Coffee (Room S030)

Panel 6 — 9:00am - 10:30am

Sunil Amrith

Melissa Ragain

Laura Jane Martin

Mark Wu

Richard Lazarus

Discussant: Sara Pritchard

Panel 7 — 10:35am - 12:15pm

Iza Ding

Joyce Chaplin

Julia Tanner

Munjed Murad

Dan McKanan

Discussant: Aaron Sachs

LUNCH — 12:15pm - 1:00pm (Room S030)

Panel 8 — 1:00pm - 2:30pm

Aaron Allen

Verena Conley

Pierre Bélanger

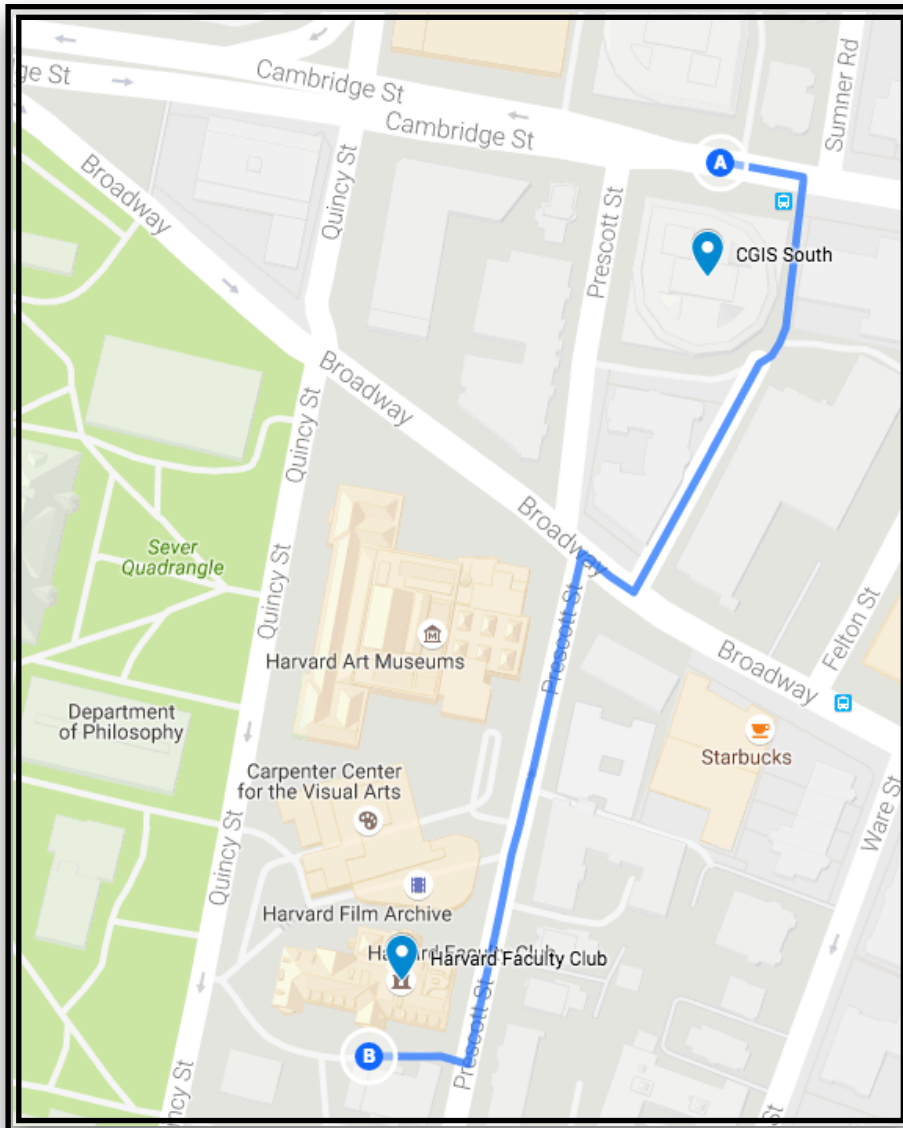
Eli Nelson

Discussant: Aaron Sachs

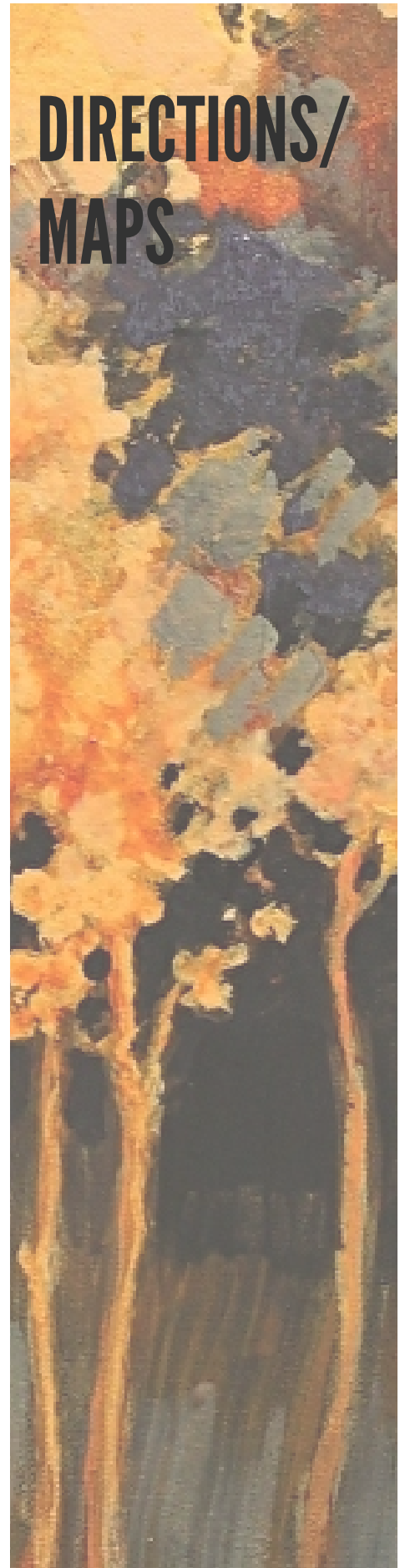
**WRAP-UP DISCUSSION (full group) — 2:30pm - 3:15pm —
facilitated by Ed Russell, Karen Thornber, and Ling Zhang**

CGIS South Building **Harvard Faculty Club**
 1730 Cambridge Street 20 Quincy Street
 Cambridge, MA 02138 Cambridge, MA 02138

DIRECTIONS/ MAPS



For dinner on Friday, September 16, 2016, the walk from the CGIS South Building to the Harvard Faculty Club takes approximately 4 minutes.





PEOPLE

In alphabetical order by first names:

Aaron Allen	Karen Thornber
Aaron Sachs	Kristen Stilt
Amy Zhang	Laura Jane Martin
Benny Schaffer	Ling Zhang
Chris Green	Mariano Siskind
Corey Byrnes	Mark Wu
Dan McKanan	Melissa Ragain
Dan Schrag	Mike McElroy
David Christiani	Munjed Murad
Doris Sommer	Ned Friedman
Ed Russell	Peter Galison
Eli Nelson	Peter Perdue
Emmanuel Akyeampong	Pierre Bélanger
Frank Clooney	Rema Hanna
Gillian Osborne	Richard Lazarus
Ian Miller	Sara Pritchard
Iza Ding	Sophia Roosth
James Robson	Stephanie LeMenager
Jeffrey Schnapp	Sunil Amrith
Jennifer Nash	Tina Grotzer
Joseph Brain	Verena Conley
Joyce Chaplin	Xiaoxuan Lu
Julia Tanner	

Aaron Allen

Aaron S. Allen is Director of the Environmental and Sustainability Studies Program and Associate Professor of Music at the University of North Carolina at Greensboro (UNCG). Allen served as UNCG's first Academic Sustainability Coordinator, helped establish the Sustainability Faculty Fellows Program, and continues to serve on the executive committee of the UNCG Sustainability Council and on the UNCG Green Fund. He co-edited *Current Directions in Ecomusicology* (with Kevin Dawe, 2016) and is working on a book tentatively titled "Fidelio in Italy: Beethoven Reception, Historiography, and the Crisis of 19th-Century Opera."



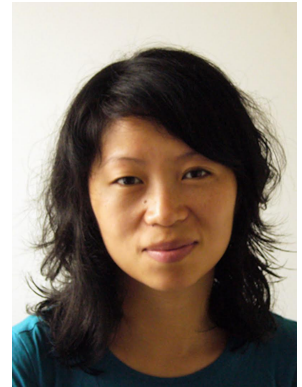
Aaron Sachs

Aaron Sachs is Professor of History and American Studies at Cornell University, where he founded the Cornell Roundtable on Environmental Studies Topics in 2010. He is also a Faculty Fellow at Cornell's Atkinson Center for a Sustainable Future. Sachs is the author of *The Humboldt Current: Nineteenth-Century Exploration and the Roots of American Environmentalism* (2006) and *Arcadian America: The Death and Life of an Environmental Tradition* (2013).



Amy Zhang

Amy Zhang is the 2016-2017 An Wang Postdoctoral Fellow at Harvard's Fairbank Center for Chinese Studies. She is a cultural and environmental anthropologist focusing on the ecological, political, and social processes of city making in China. Her book project examines the waste management crisis in Guangzhou and traces how the material practices of informal collectors, as well as the growing contentions by citizens and environmentalists, challenge the state's vision of development, modernization, and planned cities.



Benny Schaffer

Benny Schaffer is a Ph.D. candidate in Media Anthropology at Harvard, where he produces film, video, and audio works through the Sensory Ethnography Lab and Film Study Center. His research focuses on how the concept of "spectacle" relates to space, place, and the senses in the contexts of independent cinema, contemporary art, and popular performance in China. He was formerly editor of *LEAP: The International Art Magazine of Contemporary China* and curates the Emergent Visions screening series at Harvard, which showcases new and innovative works of digital cinema from China. In addition, he is co-founder of Crows and Sparrows, an initiative that seeks to create and enhance opportunities for independent media exchange between North America and Asia.





Chris Green

Chris Green is the Executive Director of Harvard Law School's Animal Law & Policy Program. Green was previously Director of Legislative Affairs for the Animal Legal Defense Fund and is the immediate past chair of the American Bar Association's TIPS Animal Law Committee. He also served on the Board of the National Center for Animal Law, was an adviser to the National Canine Research Council, and is a member of the Association of Prosecuting Attorneys, the National Sheriffs' Association's Coalition on Violence Against Animals, the American Veterinary Medical Law Association, and the Illinois Farm Bureau. Green has consulted on animal legal issues for CNN, CBS News, Dateline NBC, Headline News, *The Atlantic*, Bloomberg News, *Harper's*, *Huffington Post*, *Smart Money*, *The New York Times*, *Chicago Tribune*, *San Francisco Chronicle*, *Wall Street Journal*, and *Washington Post*.



Corey Byrnes

Corey Byrnes is Assistant Professor of Modern Chinese Culture at Northwestern University, where he teaches Chinese literature and visual culture, Sinophone cinema, and the environmental humanities. This year he is a Postdoctoral Fellow at Harvard's Mahindra Humanities Center. His current book project, "The Birth of a Chinese Landscape," approaches the 2,500-year representation tradition inspired by the Three Gorges region of southwestern China from the perspective of the recently completed Three Gorges Dam, which displaced more than one million people and radically transformed the ecology of the Yangzi River. Byrnes's newest work reflects on the relationship between artistic responses to environmental degradation and the rhetoric of threat that so often defines China in contemporary global discourse.



Dan McKanan

Dan McKanan is the Emerson Senior Lecturer at Harvard Divinity School, where he teaches and conducts research on the role of religion and spirituality in social change movements. His most recent book is *Prophetic Encounters: Religion and the American Radical Tradition* (2011). His newest book, "Eco-Alchemy: Rudolf Steiner's Anthroposophy and the Environmental Movement," will be published in 2017.

Dan Schrag

Daniel P. Schrag is the Sturgis Hooper Professor of Geology, Professor of Environmental Science and Engineering, and Director of the Harvard University Center for the Environment. He also directs the Program on Science, Technology, and Public Policy at the Harvard Kennedy School. Schrag's interests include climate change, energy technology, and energy policy. He helped to develop the hypothesis that the Earth experienced a series of extreme glaciations, called "Snowball Earths," that may have stimulated a rise in atmospheric oxygen and the proliferation of multicellular animals. In addition, he is interested in how climate events in the geologic past can be used to understand current climate challenges. Schrag has worked on a range of issues in energy technology and policy, including advanced technologies for low-carbon transportation fuel, carbon capture and storage, and risks and opportunities of shale gas. He was named a MacArthur Fellow in 2000 and currently serves on President Obama's Council of Advisors on Science and Technology.



David Christiani

David C. Christiani is Professor of Medicine at Harvard Medical School, staff physician in the Massachusetts General Hospital (MGH) Pulmonary and Critical Care Unit, and the Elkan Blout Professor of Environmental Genetics at the Harvard T. H. Chan School of Public Health. Christiani's major research interest lies in the interaction between human genes and the environment. He is internationally active in environmental and genetic epidemiology studies. At MGH, Christiani leads the Molecular Epidemiology Research Group that conducts research on environmental conditions of the lung. Christiani has served as an associate editor for *Cancer Research* and *Journal of Carcinogenesis* and is a contributing editor to *Environmental Health Perspectives*, as well as to the *American Journal of Industrial Medicine* and *Cancer Medicine*. He is likewise an International Contributing Editor to the *Chinese Journal of Occupational and Environmental Medicine* and the *Chinese Medical Journal* (English ed.). He has authored or co-authored more 600 peer-reviewed publications and was appointed by President Obama to the National Cancer Advisory Board in 2012.



Doris Sommer

Doris Sommer is Director of the Cultural Agents Initiative at Harvard University and the Ira and Jewell Williams Professor of Romance Languages and Literatures and of African and African American Studies at Harvard. Her academic and outreach work promotes development through arts and humanities, specifically through Pre-Texts (an arts-based training program for teachers of literacy, critical thinking, and citizenship) in the Boston public schools as well as throughout Latin America and beyond. Recent books include *Bilingual Aesthetics: A New Sentimental Education* (2004) and *The Work of Art in the World: Civic Agency and Public Humanities* (2014).





Ed Russell

Edmund P. Russell is a Vice President of the American Historical Association and Professor of History at Boston University. Russell is interested in how people and the rest of nature have shaped each other, placing him squarely in the fields of environmental history and history of technology. Russell's first major research project focused on the environmental history of warfare. He is author of *War and Nature* (2001), coeditor of *Natural Enemy, Natural Ally: Toward an Environmental History of War* (2004), and author of *Evolutionary History: Uniting History and Biology to Understand Life on Earth* (2011). A forthcoming book is "Greyhound Nation." His current project focuses on telegraphy as a case study of how economics, technology, and environments have shaped one another. Russell's research has won five prizes and his teaching three prizes. Other fields his work has intersected include American history, British history, history of science, law, ecology, evolutionary biology, and neuroscience.



Eli Nelson

Eli W. Nelson is a Ph.D. candidate in Harvard's Department of History of Science. In his master's thesis, he examined the development and reception of ecotheology between Pierre Teilhard de Chardin in the early twentieth century and Thomas Berry after World War II. Nelson is currently a doctoral fellow with the Science, Religion, and Culture program at Harvard Divinity School and a graduate student associate of the Weatherhead Center for International Affairs. His dissertation traces the history of 20th century indigenous engagements with Western scientific hegemony in the United States. In other work, Nelson focuses on the history of Haudenosaunee (Six Nations) science, New Deal colonial sciences, postcolonial anthropology, and indigenous science fiction. Situating contemporary environmental issues in the settler-colonial and postcolonial condition, Nelson explores how climate change has interacted with the ascendancy of native science categories and the international positioning of indigenous vulnerability and traditional ecological knowledge.



Emmanuel Akyeampong

Emmanuel Akyeampong is Professor of History and of African and African American Studies and Oppenheimer Faculty Director of the Center for African Studies at Harvard University. He is a Fellow of the Ghana Academy of Arts and Sciences and a Corresponding Fellow of the Royal Historical Society (UK). He is a co-founder of the International Institute for the Advanced Study of Cultures, Institutions and Economic Enterprise based in Accra, Ghana. He is the author and editor of several books and numerous articles including *Drink, Power, and Cultural Change: A Social History of Alcohol in Ghana, c.1800 to Recent Times* (1996) and *Between the Sea and the Lagoon: An Eco-Social History of the Anlo of Southeastern Ghana* (2001). He served as co-chief editor with Henry Louis Gates, Jr. for the *Dictionary of African Biography*, 6 vols. (2012). Akyeampong has been a coeditor of the *Journal of African History* and of *African Diaspora* and serves on the editorial board of *African Arguments*.

Frank Clooney

Francis X. Clooney, S.J. is Parkman Professor of Divinity and Professor of Comparative Theology at Harvard Divinity School and Director of the Center for the Study of World Religions. While his primary areas of Indological scholarship are theological commentarial writings in the Sanskrit and Tamil traditions of Hindu India, he is also a leading figure in the developing field of comparative theology. Clooney is the author of numerous articles and books, his most recent monograph being *His Hiding Place Is Darkness: A Hindu-Catholic Theopoetics of Divine Absence* (2013). This book is an exercise in dramatic theology, exploring the absence of God as dramatized in the biblical Song of Songs and the Hindu Holy Word of Mouth. He is currently coediting "How to Do Comparative Theology," finishing a short book on the future of Hindu-Christian learning, and working on a larger project that examines consolidation and synthesis as practices in medieval Hindu theology and the implications of these practices for interreligious learning.



Gillian Osborne

Gillian K. Osborne is a postdoctoral fellow in English at the Harvard University Center for the Environment, where her interests include American and Romantic literature, poetry and poetics, and the environmental humanities. In 2013, she was a co-organizer of a conference on ecopoetics at the University of California, Berkeley, which brought together scholars, poets, and activists, and she is presently coediting a collection of critical essays on modern and contemporary ecopoetics. Other current projects include forthcoming essays on Herman Melville's late poetry manuscript of flowery verse and on deep histories of seasonal and imperial violence in Milton and Thoreau, a poetry collection of "seasonal affective disorders," and a scholarly monograph on "nature reading" in nineteenth-century America.



Ian Miller

Ian J. Miller is Professor of History at Harvard, where he specializes on Japan and its modern empire, particularly cultural and environmental history. From the history of animals and early modern natural history collections to the history of energy, his work has focused on the material dimensions of everyday life. He is the author of *The Nature of the Beasts: Empire and Exhibition at the Tokyo Imperial Zoo* (2013) and coeditor of *Japan at Nature's Edge: The Environmental Context of a Global Power* (2013). Ongoing projects include a series of environmental microhistories, "The Case of the Ecological Corpse and Other Episodes from the Edge of History" and "Tokyo Electric: Japan in the Age of Global Energy."





Iza Ding

Iza Ding is an Assistant Professor in the University of Pittsburgh's Department of Political Science. Her research examines the political economy of development, with a substantive focus on global and local environmental governance and a regional focus on East Asia and Central and Eastern Europe. She is completing a book manuscript on the environmental protection bureaucracy in China. Other research projects include topics in environmental policy making, bureaucratic behavior, and collective political memory. She will receive her Ph.D. in Government from Harvard in November 2016.



James Robson

James Robson is the James C. Kralik and Yunli Lou Professor of East Asian Languages and Civilizations at Harvard. He specializes in the history of medieval Chinese Buddhism and Daoism and is particularly interested in issues of sacred geography, local religious history, and Chan/Zen Buddhism. He has been engaged in a long-term collaborative research project with the École Française d'Extrême-Orient studying local religious statuary from Hunan province. Robson has written numerous articles, edited the *Norton Anthology of World Religions: Daoism* (2015), and written *Power of Place: The Religious Landscape of the Southern Sacred Peak in Medieval China* (2009), which was awarded the 2010 Stanislas Julien Prize and 2010 Toshihide Numata Book Prize in Buddhism. During the 2012-2013 academic year he was a fellow at the Center for Advanced Study in the Behavioral Sciences at Stanford University and carried out research on the history of the confluence of Buddhist monasteries and mental hospitals in East Asia.



Jeffrey Schnapp

Jeffrey T. Schnapp is the founder/faculty director of metaLAB (at) Harvard and faculty co-director of the Berkman Klein Center for Internet and Society. He serves as Professor of Romance Literatures and Comparative Literature and is on the teaching faculty in the Department of Architecture at the Graduate School of Design. Schnapp is also editor of the metaLABprojects series with Harvard University Press. Recent books include *The Electric Information Age Book* (2012), *The Library Beyond the Book* (with Matthew Battles, 2014), the anthology *Modernitalia* (2012), and *Digital Humanities*, an essay on cultural heritage management recently published in Italian in the Meet the Media Guru series (2015). Forthcoming in late 2016 is an extended essay on motorized mobility and on the 130-year history of the Piaggio Group, entitled "FuturPiaggio." Among his current writing projects is a panoramic study of the artist-designer Bruno Munari, entitled "Bruno Munari, A to Z."

Jennifer Nash

Jennifer Nash is Director of the Business and Environment Initiative (BEI) at Harvard Business School. She works with faculty to help establish and implement the BEI's strategy and program portfolio. She coordinates resources across the school to strengthen research and teaching about business and the environment, connects students with career opportunities, and engages with alumni and other managers and policymakers working in this field. Previously she was Executive Director of the Regulatory Policy Program at Harvard Kennedy School and Associate Director of the Harvard Kennedy School's Mossavar-Rahmani Center for Business and Government. Her research examines private and public roles in environmental protection, with an emphasis on innovative, voluntary, and self-regulatory approaches.



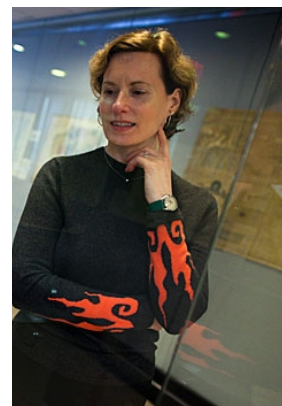
Joseph Brain

Joseph D. Brain is the Cecil K. and Philip Drinker Professor of Environmental Physiology in the Department of Environmental Health at the Harvard T. H. Chan School of Public Health. His research emphasizes responses to inhaled gases, particulates, and microbes. His studies in lung biology extend from the deposition of inhaled particles in the respiratory tract to their clearance by respiratory defense mechanisms. Brain's current research interests are in the pulmonary pharmacokinetics of metals deposited in the lungs, e.g. air pollution particulates, welding fume, mining wastes, mold, and nanomaterials. He has published numerous articles in journals such as *PLoS One*, *Toxicological Sciences*, and *PNAS*. He served on the Clean Air Scientific Advisory Committee at the U.S. Environmental Protection Agency and was director at Harvard's National Institute of Environmental Health Sciences' Center for Environmental Health.



Joyce Chaplin

Joyce E. Chaplin is the James Duncan Phillips Professor of Early American History at Harvard. She is the author of numerous books, including *Round about the Earth: Circumnavigation from Magellan to Orbit* (2012) and *The New Worlds of Thomas Robert Malthus: Rereading the Essay on the Principle of Population* (with Alison Bashford, 2016). She is coeditor of *Genealogies of Genius* (2015) and *Food in Time and Place* (2014) and has edited *Benjamin Franklin's Autobiography, a Norton Critical Edition* (2012). In addition, she has written many scholarly essays and pieces for wider readership that have appeared in *The New York Times Book Review*, the *London Review of Books*, *Aeon*, and *The Wall Street Journal*. Her work has been translated into French, Japanese, Korean, Estonian, and Turkish. She serves on the editorial boards of the *Papers of Benjamin Franklin*, the *Adams Family Papers*, *Configurations*, *Journal of the History of Ideas*, and *Global Food History*.





Julia Tanner

Julia R. Tanner works on contemporary American ethnographic film and poetry and is currently a fellow at Harvard's Department of Visual and Environmental Studies. She is researching the works of three creative artists based at Harvard — Jorie Graham, Lucien Castaing-Taylor, and V er ena Paravel, collaborators at the Sensory Ethnography Lab — putting their distinct bodies of work in conversation with one another through their representations of swarms of animals, humans, and machines. Her doctoral thesis investigates the aesthetics of the swarm in these multisensory works and asks how they can generate a heightened awareness of ecological connectedness. Tanner is pursuing her Ph.D. at the University of Leeds, where her research is funded by the Arts and Humanities Research Council. Based firmly in the environmental humanities, she draws insights from various disciplines to ask how the artists she studies — who themselves cross borders of discipline and media — create visceral experiences of ecological change that have strong political and ethical implications.



Karen Thornber

Karen L. Thornber is Professor of East Asian Languages and Civilizations and of Comparative Literature at Harvard, where she is also Victor and William Fung Director of the Asia Center, Chair of the Council on Asian Studies, and Director of the Harvard Global Institute Environmental Humanities Initiative. Her research and teaching focus on the literatures and cultures of East Asia in regional and global perspective, gender, indigeneities, postcolonialism, transculturation, trauma, and the environmental and medical humanities. Thornber is author of two multiple international award-winning scholarly monographs — *Empire of Texts in Motion: Chinese, Korean, and Taiwanese Transculturations of Japanese Literature* (2009) and *Ecoambiguity: Environmental Crises and East Asian Literatures* (2012). In addition to publishing close to 70 articles and book chapters, special issues of academic journals, and coedited volumes, she is also an award-winning translator. Current projects include a coedited special issue of the *Journal of World Literature* on Asia and World Literature, and books on global world literature and health, on climate change, and on the environment and creative networks among East Asia and the Indian Ocean Rim (South and Southeast Asia, the Middle East, and Africa).



Kristen Stilt

Kristen A. Stilt is a Professor of Law, Faculty Director of the Animal Law & Policy Program, and Director of the Islamic Legal Studies Program Project on Law and Social Change at Harvard. She is also an affiliated faculty member in the Department of History. Recent articles include "Constitutional Animal Protection in Egypt," and she is currently working on a book manuscript titled "Animal Citizens."

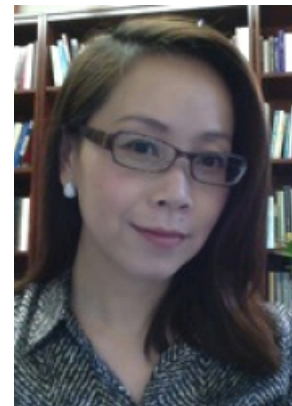
Laura Jane Martin

Laura J. Martin is a Ziff Environmental Fellow at the Harvard University Center for the Environment and the Department of the History of Science. In 2015 she received her Ph.D. in Natural Resources from Cornell University, specializing in evolutionary ecology and environmental history. She has been awarded fellowships from the National Science Foundation, the Social Science Research Council, and the Doris Duke Foundation. Her research explores how humans intentionally and unintentionally shape the distribution and diversity of other species. Her current project, "Saving Species: Ecological Restoration from the Dust Bowl to De-extinction," examines the history of ecological restoration as an idea, practice, and scientific discipline. Martin is a co-founder of two multidisciplinary academic groups, the Cornell Roundtable on Environmental Studies and the Harvard Environmental History Working Group.



Ling Zhang

Ling Zhang is an Assistant Professor of History at Boston College. She was a Ziff Environmental Fellow at the Harvard University Center for the Environment and a postdoctoral fellow in Agrarian Studies at Yale University. She has received research grants from the Chiang Ching-Kuo Foundation for International Scholarly Exchange. Zhang is an environmental and economic historian of premodern China. Her research interests include Chinese history, regional studies, political economy, political ecology, environmental justice, and environmental philosophy and ethics. Author of *The River, the Plain, and the State: Making a Yellow River Delta, 1048-1128* (2016), Zhang is preparing two book manuscripts, "North China during the Medieval Economic Revolution" and "China's Sorrow or the Yellow River's Sorrow: Environmental Biographies of a River." As an associate researcher at the Fairbank Center for Chinese Studies, she organizes research seminars and conferences for the center's Environment in Asia series.



Mariano Siskind

Mariano Siskind is Professor of Romance Languages and Literatures and Comparative Literature at Harvard. He teaches 19th-20th century Latin American Literature with emphasis on its world literary relations, as well as the production of cosmopolitan discourses and processes of aesthetic globalization. He is the author of more than two dozen academic essays and of *Cosmopolitan Desires: Global Modernity and World Literature in Latin America* (2014). He has edited Homi Bhabha's *Nuevas minorías, nuevos derechos. Notas sobre cosmopolitismos vernáculos* (2013) and *Poéticas de la distancia. Adentro y afuera de la literatura argentina* (with Sylvia Molloy, 2006). His new book, *Latin American Literature and World War I: Global Modernism and Cosmopolitan Distance*, will be published in 2016, and he is writing a new manuscript tentatively titled "The non-cosmopolitan and the post-global: worlds of destitution in theory, literature and film."





Mark Wu

Mark Wu is an Assistant Professor at Harvard Law School. He currently serves as a principal liaison to the U.S. Trade and Environment Policy Advisory Committee organized by the Office of the U.S. Trade Representative (USTR) and U.S. Environmental Protection Agency. He previously served as the Director for Intellectual Property at USTR. He began his career as an economist and operations officer at the World Bank in China, where he worked on environmental and water issues. He received a J.D. from Yale Law School, a M.Sc. in Development Economics from Oxford (where he studied as a Rhodes Scholar), and an A.B. summa cum laude in Social Studies and East Asian Studies from Harvard.



Melissa Ragain

Melissa S. Ragain is Assistant Professor of Art History at Montana State University. She is currently a fellow at Harvard's Radcliffe Institute for Advanced Study, where she is completing her book manuscript, "Formalism and Environmental Aesthetics after WWII." Primarily an intellectual history, this book examines how art was taught in the late 1960s as it negotiated changing institutional relationships to technology and art education in the American university. She writes about institutional history, social practice, the history of science and technology in the arts, and contemporary sculpture. She recently edited a collection of writing by the influential new media theorist Jack Burnham, *Dissolve into Comprehension: Writings and Interviews* (2015).

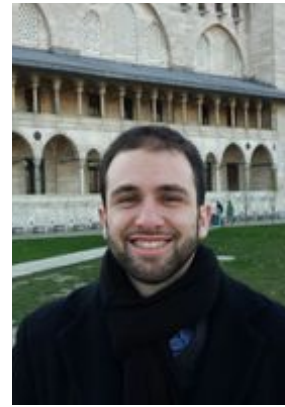


Mike McElroy

Michael B. McElroy is the Gilbert Butler Professor of Environmental Studies at Harvard. He has served as Director of the Center for Earth and Planetary Physics, founding Chair of the Department of Earth and Planetary Sciences, Chair of the University-wide Committee on the Environment, and first director of the Harvard University Center for the Environment. McElroy's research interests include changes in the composition of the atmosphere with an emphasis on the impact of human activity, chemistry of the atmosphere and oceans, including interactions with the biosphere, evolution of planetary atmospheres, and the global carbon cycle. His research includes investigations of processes affecting the abundance of ozone in the stratosphere and factors influencing the chemical composition of the troposphere. He addresses challenges for public policy posed by the rapid pace of industrialization in developing countries such as China and India, exploring alternative strategies for more sustainable development in mature economies such as the U.S.A. McElroy is the author of more than 250 technical papers and several books. His book *Energy: Perspectives, Problems, and Prospects* (2009) addresses the challenge posed by our need to switch to a low carbon energy future in order to meet the challenge of global climate change.

Munjed Murad

Munjed M. Murad is a doctoral student at the Harvard Divinity School whose focus is on religion and ecology, particularly Islam and Christianity. He is a Junior Fellow of the Center for the Study of World Religions. His interests include the concept of theophany in the natural world as explained by the Islamic metaphysical traditions.



Ned Friedman

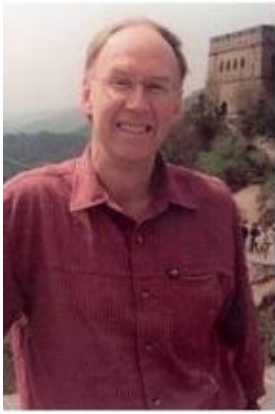
William (Ned) Friedman is the Arnold Professor of Organismic and Evolutionary Biology at Harvard and the Director of the Arnold Arboretum. Friedman's studies have fundamentally altered century-old views of the earliest phases of the evolution of flowering plants, Darwin's so-called "abominable mystery." As Arboretum director, Friedman has worked to expand its societal impact through diverse initiatives in public programming, enhanced communication between scientists and the public, the embedding of scientific scholarship in the newly opened Weld Hill Research Building, and a reinvention of the long-standing relationship between the Arboretum and the biodiversity of Asia. A ten-year initiative was launched in 2016 to shape and augment the Arboretum's living collections for the next century, bringing in 400 species of woody plants, including many threatened with extinction.



Peter Galison

Peter L. Galison is Joseph Pellegrino University Professor of Physics and Director of the Collection of Historical Scientific Instruments at Harvard. He was awarded a John D. and Catherine T. MacArthur Foundation Fellowship in 1997 and received the Max Planck and Humboldt Stiftung Prize in 1999. Recent books include *Einstein's Clocks*, *Poincaré's Maps* (2003) and *Objectivity* (with Lorraine Daston, 2007). He is writer of a film on the moral-political debates over the H-bomb, "Ultimate Weapon: The H-bomb Dilemma" (directed by Pamela Hogan, 2000), with Robb Moss directed "Secrecy" (2008), and also with Moss recently completed "Containment" (2015) — about the need to guard radioactive materials for the 10,000-year future. In addition, Galison collaborated with William Kentridge on a multi-screen installation, "The Refusal of Time" (2012). He is now finishing a book, "Building Crashing Thinking," about the back and forth between the self and modern technologies.





Peter Perdue

Peter C. Perdue is Professor of History at Yale University. His books include *Exhausting the Earth: State and Peasant in Hunan, 1500-1850 A.D.* (1987) and *China Marches West: The Qing Conquest of Central Eurasia* (2005). He has coauthored *Global Connections: Politics, Exchange, and Social Life in World History* (2015) and *Asia Inside Out*, three volumes on inter-Asian connections (2015-present). His current research focuses on Chinese frontiers, Chinese environmental history, and the history of tea.



Pierre Bélanger

Pierre Bélanger is Associate Professor of Landscape Architecture and Co-Director of the Urbanism, Landscape, and Ecology Area of the Master in Design Studies Program at Harvard's Graduate School of Design. Bélanger was the first landscape architect to be selected for the *Pamphlet Architecture Series* (founded in 1977); the 35th edition is titled *Going Live: From States to Systems* (2015). In collaboration with Jennifer Sigler, Bélanger recently guest edited a special issue of *Harvard Design Magazine* (#39) on the urbanization of the ocean ("Wet Matter"). He received the 2008 Canada Prix de Rome in Architecture and was appointed curator for the Canada Pavilion and Exhibition EXTRACTION at the 2016 Venice Architecture Biennale. In collaboration with ecologist and urban planner Nina-Marie Lister, he is currently completing a manuscript titled "Extraction Empire," profiling the scales, states, spaces, and systems of Canada as the largest extraction nation on the planet.



Rema Hanna

Rema Hanna is the Jeffrey Cheah Professor of South-East Asia Studies at Harvard and Co-Director of the Evidence for Policy Design research program at the Center for International Development. In addition, she is the Scientific Director for Southeast Asia at the Abdul Latif Jameel Poverty Action Lab, a Research Associate with the National Bureau of Economic Research, an affiliate of the Bureau for Research and Economic Analysis of Development, and a faculty affiliate at the Harvard Center for Population and Development Studies. Hanna is particularly interested in understanding how to make government services "work" for the poor in developing countries. She has worked on large-scale field projects with governments and nonprofits to understand how to improve safety net systems, reduce bureaucratic absenteeism, and reduce corruption. Before joining the Kennedy School, she was a faculty member at New York University.

Richard Lazarus

Richard J. Lazarus is the Howard and Katherine Aibel Professor of Law at Harvard, where he teaches environmental law, natural resources law, Supreme Court advocacy, and torts. Lazarus has represented the United States, state and local governments, and environmental groups at the Supreme Court in 40 cases and has presented oral argument in 13 of those cases. His primary areas of legal scholarship are environmental and natural resources law, with particular emphasis on constitutional law and the Supreme Court. He is the author of *The Making of Environmental Law* (2004) and coeditor of *Environmental Law Stories* (2005). He was also the principal author of *Deep Water - The Gulf Oil Disaster and the Future of Offshore Drilling* (2011), which is the Report to the President of the National Commission on the BP Deepwater Horizon Oil Spill and Offshore Drilling Commission, for which he served as the executive director. Before joining the Harvard law faculty, Lazarus was the Justice William J. Brennan, Jr., Professor of Law at Georgetown University, where he founded the Supreme Court Institute.



Sara Pritchard

Sara B. Pritchard is Associate Professor in Cornell University's Department of Science and Technology Studies. Her specialties include environmental history, the history of technology, and environmental STS. She co-founded Envirotech, a special interest group of the Society for the History of Technology and the American Society for Environmental History. She is the author of *Confluence: The Nature of Technology and the Remaking of the Rhône* (2011), coeditor of *New Natures: Joining Environmental History with Science and Technology Studies* (2013), and coeditor of a special issue of *Environment and Planning* on "Knowledge and the Politics of Land" (2016). She has also written about industrialization, conservation, and the triple disaster at Fukushima. Pritchard's current research examines the history and politics of environmental light pollution, for which she received an NSF Science, Technology, and Society Scholars' Award.



Sophia Roosth

Sophia Roosth is the Frederick S. Danziger Associate Professor in Harvard's Department of the History of Science. Her research focuses on 20th and 21st century life sciences, examining how biology is changing at a moment when researchers build new biological systems. Roosth has served as the Anna-Maria Kellen Fellow of the American Academy in Berlin, the Joy Foundation Fellow of the Radcliffe Institute for Advanced Study, a postdoctoral fellow at the Pembroke Center for Teaching and Research on Women at Brown University, and a predoctoral fellow of the Max Planck Institute for the History of Science in Berlin. Roosth has published a number of articles in scholarly journals and contributed to Stefan Helmreich's *Sounding the Limits of Life* (2016).





Stephanie LeMenager

Stephanie LeMenager is Barbara and Carlisle Moore Professor of English and Professor of Environmental Studies at the University of Oregon. Her publications include the books *Living Oil: Petroleum Culture in the American Century* (2014), *Manifest and Other Destinies* (2004) and (as coeditor) *Environmental Criticism for the Twenty-First Century* (2011). Her forthcoming book, "Weathering: Toward a Sustainable Humanities", treats the role of the Humanities in the era of global climate change, while the forthcoming collections "Teaching Climate Change in the Humanities" (with coeditors Stephen Siperstein and Shane Hall) addresses climate change pedagogy and the Bloomsbury series *Literature and Environment* (coedited with Teresa Shewry) offers a four-volume history of ecocriticism and the environmental humanities. She is a founding editor of *Resilience: A Journal of the Environmental Humanities*.



Sunil Amrith

Sunil S. Amrith is the Mehra Family Professor of South Asian Studies and Professor of History at Harvard. He is a historian of South and Southeast Asia with particular focus on the connections between those two regions. His recent book *Crossing the Bay of Bengal* (2013) brought together the history of migration and environmental history. He is currently writing about water and environmental change in modern India.



Tina Grotzer

Tina Grotzer is a cognitive scientist who studies ways in which understandings about the nature of causality impact our ability to deal with complexity in our world. Her research considers how causal understanding: 1) develops in supported contexts; 2) interacts with science learning (with the goal of developing curriculum supports); and 3) influences the public understanding of science. She is on the faculty at the Harvard Graduate School of Education and is a senior researcher at Project Zero where she directs the Causal Learning in a Complex World Lab. With colleague Chris Dede, her current projects focus on how immersive and mobile technologies can be leveraged to help students learn to understand the complex causal dynamics in ecosystems. Tina received a Career Award from the National Science Foundation in 2009 and a Presidential Early Career Award for Scientists and Engineers in 2011. She is the author of *Learning Causality in a Complex World* (2012) and lead author of the *Causal Patterns in Science* series.

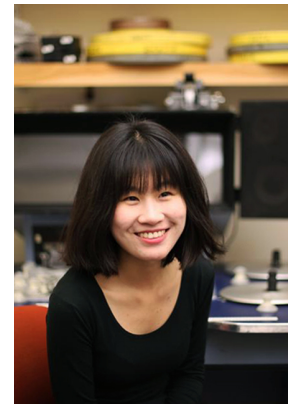
Verena Conley

Verena A. Conley is Long-term Visiting Professor of Comparative Literature and of Romance Languages and Literatures at Harvard. Her research interests focus on theories of the environment, cultural theory, politics, and aesthetics. She is currently a Senior Fellow at Dumbarton Oaks (Washington, D.C.) where she is working on a book titled “Jardin d’Essai du Hamma.” Her publications include the books *Spatial Ecologies: Urban Sites, State and World-Space in French Cultural Theory* (2012) and *Ecopolitics: The Environment in Poststructuralist Thought* (1997), the edited volume *Rethinking Technologies* (1992), and the coedited volume *Nancy Now* (with Irving Goh, 2013). Recent articles and book chapters include “Care of the Possible” (2016), “Preoccupations” (2015), “Nancy’s World” (2015), and “The Prepositional Senses of Jean-Luc Nancy” (2014).



Xiaoxuan Lu

Xiaoxuan Lu is lecturer in the Division of Landscape Architecture at the University of Hong Kong, where she teaches landscape history and theory as well as design studios. Her research focuses on the cultural landscape and the geography of conflict, particularly in transboundary regions. Applying analytical cartography, photography and video in her research, Lu aims to reveal the hidden layers of landscape where multiple tensions converge. In her MLA thesis, “Mining as Demining,” she focused on the remediation of postwar landscape in Laos PDR; this thesis won the 2012 Award of Excellence from the American Society of Landscape Architects. Her doctoral dissertation, “Reconceptualizing China’s Northwestern Frontiers: Arid Land, The Corps, and Public Water Works,” examines the relationship between water and power in China’s militia-stationed northwestern frontier and how discourses of ecology have influenced and problematized notions of “state” and “wasteland.” She was a Harvard Ph.D. Fellow (2014-2016) and expects to receive her Ph.D. in Human Geography from Peking University by the end of 2016.



ACKNOWLEDGMENTS

The Harvard Global Institute Environment Initiative thanks President Drew Faust, Vice Provost Mark Elliott, Vice President for Strategy and Programs Leah Rosovsky, Senior Adviser to the President Krishna Palepu, Fairbank Center Director Michael Szonyi, Fairbank Center Executive Director Jennifer Rudolph, Asia Center Executive Director Elizabeth Liao, Harvard Global Institute Project Manager Heather McPherson, and Comparative Literature Department Administrator Melissa Carden, as well as colleagues across the university, for their support, advice, and enthusiasm.

Special thanks also go to Isaure Mignotte (Comparative Literature), Mark Grady (Fairbank Center), Kathleen Ong (Comparative Literature), and Ivanna Yi (EALC), for providing expert administrative guidance for this weekend's Harvard Global Institute Workshop.

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Page 8: *Lilac Sunset*, Laura Edgar

Page 24: *Virginia*, Monique Day-Wilde

Page 25: *FIRE*, Kellie Day

Page 26: *Water's Edge*, Boo Mallinson

NOTES



NOTES



16-17
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