



Young Environmental Scholars Conference

Environmental Science, Policy, & Behavior

December 2 – 8:30 AM - 6:00 PM
Arrillaga Alumni Center - Fisher Center

The Young Environmental Scholars Conference brings together environmental researchers from all seven schools at Stanford for innovative dialogue and productive collaboration regarding environmental science, policy, and behavior research. The conference exposes Master's and early-stage doctoral students to different approaches to environmental research and engages late-stage doctoral students and postdoctoral scholars in discussion about how personal and academic world-views influence research questions and design. The conference also provides students and postdoctoral scholars an opportunity to present their research in a novel interdisciplinary space.

Agenda:

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| 8:30 - 9:00 am | Registration & Breakfast |
| 9:00 - 10:30 am | Welcome & Workshops Jeff Koseff, Director of the Stanford Woods Institute for the Environment Harnessing the Power of Stories: Incorporating storytelling techniques into communication of your academic work – Stanford's Storytelling Project Designing Effective Graphics: Creating National Geographic-ready figures and diagrams – Erik Jacobsen from Threestory Studio |
| 10:30 - 10:45 am | Networking & Coffee Break |
| 10:45 - 12:00 pm | Research Presentations - Law, Policy & Climate Change |
| 12:00 – 1:00 pm | Lunch |
| 1:00 - 2:00 pm | Keynote Speaker Jim Leape, Consulting Professor Stanford Woods Institute for the Environment & School of Earth, Energy, and Environmental Sciences |
| 2:00 – 3:15 pm | Research Presentations - Water Conservation & Management |
| 3:15 - 3:30 pm | Networking & Coffee Break |
| 3:30 - 4:45 pm | Research Presentations - interdisciplinary Environmental Management |
| 4:45 - 5:00 pm | Concluding Remarks Pamela Matson, Dean of the School of Earth, Energy & Environmental Sciences |
| 5:00 - 6:00 pm | Poster Session & Cocktail Reception *Co-Sponsored by Stanford Environmental and Behavior Research Group |



Keynote Speakers:

We are delighted to have [Jim Leape](#) as our keynote speaker. Jim is the Cox Consulting Professor in the School of Earth, Energy & Environmental Sciences and at the Stanford Woods Institute for the Environment. He has 30 years of conservation experience spanning a range of conservation efforts, including as Director General of WWF International, Director of conservation and science efforts for the David and Lucile Packard Foundation, and as a lawyer for the United Nations Environment Programme and the U.S. Department of Justice.

Workshops:

Harnessing the Power of Stories: Incorporating storytelling techniques into communication of your academic work. [Stanford's Storytelling Project](#) will lead participants through interactive exercises designed to help craft effective and engaging narratives that appeal to diverse audiences within and outside of academia.

Natacha Ruck, Project Administrator and Senior Producer of the Stanford Storytelling Project
Will Rogers, Senior Producer of the Stanford Storytelling Project

Designing Effective Graphics: Creating National Geographic-ready figures and diagrams. Erik Jacobsen from [Threestory Studio](#) will share techniques for designing diagrams and illustrations that illuminate complex systems, processes, and concepts. Participants will learn to integrate visual appeal and graphic design concepts into figures that accurately and effectively capture their work.

Erik Jacobsen, Information Designer at Threestory Studio

Presentations and Posters:

Presentations and posters will expose conference participants to different approaches to societally relevant and/or normative environmental research. They will also give presenters an opportunity to explain their work to diverse audiences. Presentations and posters showcase diverse research of PhD students and postdocs from Humanities & Sciences, Education, Medicine, Engineering, Business, Law, and Earth, Energy, & Environmental Sciences. Exposure to this research will also serve as fodder for discussion and collaboration across disciplinary boundaries among young environmental scholars at Stanford.

Oral Presentations

Session 1: Law, Policy & Climate Change

10:45am – 12:00pm

Dave Wright
Law School, LLM

Linkers in a dangerous time: Managing legal California-Canada carbon market linkages

Hernan Barahona
Department of Economics, PhD

Adopting a cleaner technology: The effect of driving restrictions on fleet turnover

Cesar Martinez
International Policy Studies, Masters

Social capital and vulnerability to global environmental change in coastal urban Mexico

Igor Rubinov
Princeton – Anthropology, PhD

Intimate climate: Adapting with trees in the mountains of Tajikistan

Session 2: Water Conservation & Management

2:00pm – 3:15pm

Andy Stock
E-IPER, PhD

How much do modeling assumptions and data quality problems influence marine human impact maps?

Michael Harris
E-IPER, PhD

Spatial analysis of sanitation infrastructure, water quality, and child health

Dean Chahim
School of Humanities and Sciences - Anthropology, PhD

Engineering the infinite metropolis: Mexico City's water resource engineers and the crisis of urban growth

Ketaki Shiram
Department of Communication, PhD

Under the sea: The effect of perceived fish avatars on conservation attitudes and behavior

Session 3: Interdisciplinary Environmental Management

3:30pm – 4:45pm

Lisa Offringa
School of Medicine – SPRC, Post Doc

Research ethics and the protection of cultural biodiversity during a medical ethnobotany study in northern Thailand

Alexis Mychajliw
School of Humanities and Sciences - Biology, PhD

The prescience of the past: How fossils can guide conservation in a changing world

Julia Mason
School of Humanities and Sciences - Biology, PhD

Engaging diverse stakeholders for conservation solutions

Beth Morrison
School of Humanities and Sciences - Biology, PhD

Can diversified agriculture provide resources for wildlife? A case study with neotropical hummingbirds

Gregg Sparkman
Department of Psychology, PhD

Pitfalls and solutions to using social norms to promote sustainable behavior change

Poster Presentations

Poster Session – 5:00pm – 6:00pm

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| A.R.M. Nabiul Afrooz <i>Department of Civil and Environmental Engineering, Post Doc</i> | Effect of biofilm on removal of E.coli in storm water biofilter |
| Benjamin Bryant <i>Woods Institute for the Environment – The Natural Capital Project, Post Doc</i> | Known unknowns, unknown unknowns, and best practice: Why is uncertainty analysis absent from many ecosystem service assessments? |
| Julian Damashek <i>Earth, Energy and Environmental Science, PhD</i> | Factors influencing nitrification rates and ammonia-oxidizing microbes throughout the San Francisco Bay estuary |
| Tomasz Golinski <i>Department of Civil and Environmental Engineering, PhD</i> | Biodiversity preservation through innovative bioenergy production |
| Patricia Gonzales <i>Department of Civil and Environmental Engineering, PhD</i> | Urban water sustainability: An integrative framework for regional water management |
| Debra Hausladen <i>Earth, Energy and Environmental Science, PhD</i> | Spatial coupling of chromium and manganese cycling: Generation of hexavalent chromium within soils and sediments |
| Perrine Hamel <i>Woods Institute for the Environment – The Natural Capital Project, Post Doc</i> | The value of simple models: Performance of a seasonal water yield model to inform ecosystem-based management |
| Jennifer C. Hartle <i>School of Medicine – SPRC, DrPH</i> | Formative research for risk modeling of Bisphenol-A (BPA) exposures from food packaging |
| Ethan Heil <i>Department of Civil and Environmental Engineering, Engineer's Degree</i> | Life cycle impacts of affordable housing. |
| Laura Kwong <i>Department of Civil and Environmental Engineering, PhD</i> | Hand and object mouthing of rural Bangladeshi children 3-18 months old |
| Yingdan Lu <i>Center for East Asian Studies, MA</i> | Reimagining civility from public and media: Agendas in Chinese haze governance |

Poster Session – 5:00pm – 6:00pm

Francesca Mazzarella
University of Rome III – Economics, PhD

Electricity market and environmental policies:
Evidence from the Italian case

Rebecca Niemiec
E-IPER, PhD

Motivating resident activism to combat the invasive
albizia tree across private lands: Insights from the
collective interest model

Kim Quesnel
Department of Civil and Environmental Engineering, PhD

Tapping into alternative ways to fund distributed water
projects: A financing framework from the electricity
sector

Samantha Selby¹ and Austin Cruz²
International Comparative Education¹, MA
Woods Institute for the Environment², MA

Public-private educational partnerships:
Environmental education in the Osa Peninsula, Costa
Rica

Shiran Shen
*School of Humanities and Sciences – Political Science,
PhD*

The inconvenient truth of the political environmental
cycle: Theory and evidence from China

Carly Sponarski,
Graduate School of Education, Post Doc

The nexus between environmental learning and
sustainable behavior: Findings from a San Francisco
Bay Area survey

Daniel Swain
Earth, Energy and Environmental Science, PhD

Character and causes of changing Pacific climate
extremes: Special focus on the extraordinary 2012-
2015 California drought

Jennifer Wang
E-IPER, PhD

Future leaders of business and climate

Jordyn Wolfand
Department of Civil and Environmental Engineering, PhD

White rot fungi for enhanced storm water treatment

Caitlin Woolsey
Earth, Energy and Environmental Science, MSc

Environmental values and the owner-built home in
Southeast Alaska

Notes

Oral Presentation Ballot

Please help us choose the winners of the YES Conference oral presentation awards. Choose the two presentations you think most deserve recognition. Please consider **research** (rigor, methodology, innovation, contribution) as well as **communication** (clarity, creativity, aesthetic appeal, use of visual and/or auditory aids) in your assessment.

Session 1: Law, Policy, & Climate Change

- **Linkers in a dangerous time: Managing legal California- Canada carbon market linkages** – *Dave Wright*
- **Adopting a cleaner technology: The effect of driving restrictions on fleet turnover** – *Hernan Barahona*
- **Social Capital and vulnerability to global environmental change in Coastal Urban Mexico** – *Cesar Martinez*
- **Intimate climate: Adapting with trees in the mountains of Tajikistan** – *Igor Rubinov*

Session 2: Water Conservation & Management

- **How much do modeling assumptions and data quality problems influence marine human impact maps?** – *Andy Stock*
- **Spatial analysis of sanitation infrastructure, water quality, and child health** – *Michael Harris*
- **Engineering the infinite metropolis: Mexico City's water resource engineers and the crisis of urban growth** – *Dean Chahim*
- **Under the sea: The effect of perceived fish avatars on conservation attitudes and behavior** – *Ketaki Shiram*

Session 3: Interdisciplinary Environmental Management

- **Research ethics and the protection of cultural biodiversity during a medical ethnobotany study in northern Thailand** – *Lisa Offringa*
- **The prescience of the past: How fossils can guide conservation in a changing world** – *Alexis Mychajliw*
- **Engaging diverse stakeholders for conservation solutions** – *Julia Mason*
- **Can diversified agriculture provide resources for wildlife? A case study with neotropical hummingbirds** – *Beth Morrison*
- **Pitfalls and solutions to using social norms to promote sustainable behavior change** – *Gregg Sparkman*

Comments (indicate to which presentation feedback refers; comments will be compiled and delivered to presenters):

Poster session ballot on reverse side. Return ballot to registration desk at the end of the day.

Poster Presentation Ballot

Please help us choose the winners of the YES Conference **poster presentation** awards. Mark the two presentations you think most deserve recognition. Please consider **research** (rigor, methodology, innovation, contribution) as well as **communication** (clarity, creativity, aesthetic appeal, use of visual and/or auditory aids) in your assessment.

- Effect of biofilm on removal of E. coli in storm water biofilter – A.R.M. Nabiul Afrooz
- Known unknowns, unknown unknowns, and best practice: Why is uncertainty analysis absent from many ecosystem service assessments? – *Benjamin Bryant*
- Factors influencing nitrification rates and ammonia-oxidizing microbes throughout the San Francisco Bay estuary – *Julian Damashek*
- Biodiversity preservation through innovative bioenergy production – *Tomasz Golinski*
- Urban water sustainability: An integrative framework for regional water management – *Patricia Gonzales*
- Spatial coupling of chromium and manganese cycling: Generation of hexavalent chromium within soils and sediments – *Debra Hausladen*
- The value of simple models: Performance of a seasonal water yield model to inform ecosystem-based management – *Perrine Hamel*
- Formative research for risk modeling of Bisphenol-A (BPA) exposure from food packaging – *Jennifer Hartle*
- Life cycle impacts of affordable housing – *Ethan Heil*
- Hand and object mouthing of rural Bangladeshi children 3-18 months old – *Laura Kwong*
- Reimagining civility from public and media: Agendas in Chinese haze governance – *Yingdan Lu*
- Electricity market and environmental policies: Evidence from the Italian case – *Francesca Mazzarella*
- Motivating resident activism to combat the invasive albizia tree across private lands: Insights from the collective interest model – *Rebecca Niemiec*
- Tapping into alternative ways to fund distributed water projects: A financing framework from the electricity sector – *Kim Quesnel*
- Public-private educational partnerships: Environmental education in the Osa Peninsula, Costa Rica – *Samantha Selby and Austin Cruz*
- The inconvenient truth of the political environmental cycle: Theory and evidence from China – *Shiran Shen*
- The nexus between environmental learning and sustainable behavior: Findings from a San Francisco Bay Area survey – *Carly Sponarski*
- Character and causes of changing Pacific climate extremes: Special focus on the extraordinary 2012-2015 California drought – *Daniel Swain*
- Future leaders of business and climate – *Jennifer Wang*
- White rot fungi for enhanced storm water treatment – *Jordyn Wolfand*
- Environmental values and the owner-built home in Southeast Alaska – *Caitlin Woolsey*

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