

Summit Summary



575 Participants

53 Sponsors

92 Presenters

27 Exhibitors

48 Facilitators

34 Volunteers

Resulted in . . .

Breakout Sessions

Summit participants engaged in facilitated breakout sessions focused on five major sectors of Idaho's economy:

-  1) Forests and Wildfire
-  2) Health and Quality of Life
-  3) Recreation, Fish, and Wildlife
-  4) Agriculture and Rangeland
-  5) Infrastructure and Built Environment

Participants identified opportunities for adaptation and mitigation to the changing climate, which fell into five categories:

-  1) Collaborate
-  2) Change Mindsets and Communication
-  3) Use Metrics and Economics
-  4) Think in Systems
-  5) Focus on Local

Plenary Sessions

Speakers outlined the effects of Idaho's changing climate in terms of:

-  Risk
-  Economic Costs
-  Growth and Competitive Opportunities

Panelists from across Idaho's major economic and human sectors presented stories on the costs, impacts, and responses to Idaho's changing climate regarding:

-  **Water** - as related to energy, agriculture, municipalities, and fisheries
-  **Wildfire** - as related to forest products, land management, rangelands, and the state endowment
-  **Health and Quality of Life** - as related to public health and human relationship to the environment

Next Steps Forward

1. Idaho Risk Analysis:

Produce an Idaho economic risk analysis and solutions roadmap.

-  Use Metrics and Economics

2. Local Workshops:

Support workshops in local communities to foster dialogue and incubate solutions.

-  Focus on Local

3. Working Groups:

Promote solutions-focused, industry-specific, and cross-sector project teams to work on climate initiatives.

-  Think in Systems

4. Support Other Efforts:

Explore opportunities to add business perspectives to the Northwest Climate Conference in Boise, October 2018.

-  Collaborate

Please join your fellow Idahoans in these efforts! We are all in this together. To join a project or learn more, visit: <http://idahoclimatesummit.com/Solutions>.



Safeguarding Idaho's Economy In a Changing Climate

Nov 16 -17

2017

Our Land, Our Water, Our Health, Our Future

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Post Summit Solutions Report

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Thank You Sponsors!

Investing in a resilient Idaho benefits us all. We could not accomplish our goals without the support, involvement and enthusiasm of our committed sponsors.



Hancock Forest Management | Idaho Rangeland Resource Commission | J.R. Simplot Company
 Trout Unlimited | Perkins Coie LLP | Shift Strategies | Centered Consulting Intl, LLC
 Outdoor Industry Association | Ziji Creative Resource Inc. | Learning and Development Consulting, LLC
 Generative Leadership Group LLC | CAW Consulting and Management | Illuminary
 The Freshwater Trust | Citizen's Climate Lobby | Jessica and Decker Rolph | Renewable Energy Northwest
 Figure 8 Investment Strategies | Trent Jones | ISU Credit Union | Idaho Department of Parks and Recreation
 Janet and Russ Buschert | Center for Advanced Energy Studies

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Dear Fellow Idahoans,

The current condition and trends of the earth's climate is a topic with much debate. The divisive nature of this debate is of little help to individuals, organizations, or businesses interested in objective climate information. People in our state are seeking concrete examples of how businesses and communities are reducing risks and capitalizing on new opportunities posed by Idaho's changing climate.

Safeguarding Idaho's Economy in a Changing Climate was designed to provide an inclusive forum to discuss market-based solutions. We organized the Summit to bring together Idahoans from all walks of life to listen to credible business sources, discuss economic challenges and advantages, and participate in exploring practical paths forward.

This report summarizes the Summit outcomes and next steps to help Idahoans understand how Idaho's changing climate affects them. It also provides a set of recommended actions for Summit participants and other Idahoans to consider in the months ahead. We hope that together, the Summit and this report will help Idaho's businesses, agencies, and communities decide how to best collaborate in safeguarding our economy in a changing climate.

An interesting outcome of the Summit was an acknowledgment that while significant climatic changes are occurring across Idaho, these changes are in many cases less extreme than those in other parts of the country. As a result, Idaho may be a destination for those leaving extreme climate conditions in other states. This population growth could pose unique challenges that magnify the other impacts of increased temperatures, less predictable water resources, and more catastrophic wildfires.

The Summit organizers request your partnership in pursuing the solutions listed in this document. Together we can promote climate-related efforts that advance new markets, technology, and action, while maintaining Idaho's attractiveness for investment, recreation, and innovation. If you would like to be a part of one of these efforts, please go to <http://www.idahoclimatesummit.com/solutions> to sign up.

Sincerely,

The Steering Committee

Overview



Opening Plenary, Second Day: Toni Hardesty, The Nature Conservancy

Safeguarding Idaho's Economy in a Changing Climate, a two-day Summit held November 16 and 17, 2017, began with an ambitious primary goal: **To explore market-based solutions for safeguarding Idaho's economy, health, landscape, and lifestyle.**

The Summit attracted 575 participants statewide, engaging Idahoans from almost every business sector to share their experiences with changes in climate and develop tangible and implementable solutions. During the two days, Summit participants gathered in person at four locations: Boise State University, University of Idaho, Idaho State University, and Henry's Fork Foundation.

The Summit was supported by 53 sponsors, 92 speakers and panelists, 27 exhibitors, 48 facilitators, and 34 volunteers. The Summit agenda, materials, and the Summit program, with the full list of sponsors, speakers, exhibitors, facilitators, and volunteers, is in [Appendix 1](#).

In addition to the primary goal described above, other goals of the Summit included:

1. Explore economic opportunities and efficiencies as well as risks, and build upon innovative ideas
2. Showcase successes of Idaho businesses in adapting to or mitigating unpredictability from a changing climate
3. Reveal and promote optimism and innovation
4. Build new collaborations, commitments, and ongoing forums
5. Provide resources and references for short and long-term actions and small and large-scale innovations

Participants

256 Boise
137 Moscow
62 Pocatello
18 Ashton
102 Livestream

575 Total Statewide

"Prior to the Summit I would honestly say that I was against the timber industry and forestry as a whole, as I wasn't fully informed about their role in the economy as well as the environmental impact of their work. After the Summit I would say that I have a new understanding of the role that their industry plays in our economy and climate. Moving forward I will definitely look to be more educated on this topic, and help to inform others of its key role in our economy, and also in helping to prevent and alleviate some of the problems associated with wildfires."

- Summit Participant

Plenary Session Highlights



Opening Plenary: Kate Gordon, Risky Business Project



Opening Invocation: Josiah Pinkham, Nez Perce Tribe; David New, Society of American Foresters; and Dr. Robert Kustra, Boise State University

“Will Idaho capture the opportunity of these climate trends that are happening regardless of the policy? These markets are growing regardless of the policy you’re putting in place. Will you capture that opportunity or risk leaving it behind?”

“You don’t need to wake up and climate-proof your economy. You need to take opportunities that are already there, investments that are already being made. It’s not necessarily new money, it’s redeployed money. And that’s true whether you’re a state, a company, or an individual.”

- Kate Gordon, Risky Business Project

To create a shared experience for all participants, plenary sessions featured expertise from leaders in Idaho’s key economic sectors. Beginning with a keynote that clarified Idaho’s changing climate as a risk management issue, the day-one sessions provided a detailed examination of observable impacts from changes affecting water, fire, health, and quality of life. The second day built upon the challenges shared in day one and presented inspiring innovations and solutions from well-established and emerging businesses. [See Appendix 1](#) for a full description of the plenary sessions. Speaker presentations are available at <http://www.idahoclimatesummit.com/live/>.

“We are looking at our supply chain from seed to backpack. It’s a vision to reduce our ecological footprint, craft our food with organic and sustainable ingredients, bake it in facilities that run on renewable energy and recycle all waste, package it in eco-friendly packaging, and ship it in a way that doesn’t pollute. We’ve got a long way to go but we’re making some great progress.”

- Rich Berger, Clif Bar

“Let’s get out of our silos. We have allowed ourselves, certainly in the public sector, to get into the silos of wastewater, stormwater, drinking water. That has hindered our ability to plan and use different water supplies . . . the idea of One Water is really focused on breaking down barriers across the water sectors.”

- Steve Burgos, City of Boise

Plenary Session Highlights



Water Panel: Mark Solomon, Idaho Water Resource Research Institute; John Bernardo, Idaho Power; Lynn Tominaga, Idaho Ground Water Appropriators; Steve Burgos, City of Boise Department of Public Works; and Kira Finkler, Trout Unlimited

“Only 20% of our rangeland, about half of our state is privately held ... that 20% is really critical - that’s where the water is. That ties into the public land management, whether it’s BLM, Forest Service, or even the State lands. Connecting those landscapes, the interdependence of those landscapes, is very critical. Unfortunately a lot of decisions about Idaho don’t come from people in Idaho.”



Health and Quality of Life Panel: Steve Pew, Southeast Idaho Public Health District; Heather Kimmel, American Lung Association; Allison Crimmins, US Environmental Protection Agency, Office of Air and Radiation, Climate Change Division; Stephanie Krantz, Nez Perce Tribe; and Josiah Pinkham, Nez Perce Tribe

“In these local communities, the social, the economic, and the ecological are all intertwined. It’s really important that we think about the whole picture.”

*- Gretchen Hyde,
Idaho Rangeland
Resource Commission*

“This year a climate change [shareholder] resolution asking ExxonMobil to report on its climate change impacts got 62 percent of the vote. That is huge! And your ETFs and mutual funds voted for that for the first time this year and that is an enormous shift. Vanguard, Blackrock, iShares - if you own those funds, they’ve become activist investors on climate issues.”

- Lisa Cooper, Figure 8 Investing

“One of the biggest dilemmas that humanity faces in this overall survival equation is two fold: It is awareness of, and action on, the need for a sense of relationship with the environment.”

*- Josiah Pinkham,
Nez Perce Tribe*

Breakout Session Highlights

"The biggest take away I had and heard others talk about was the realization business is already taking this seriously even if politicians aren't – we don't see those stories in the media, just the usual 'climate change isn't real' stuff. We need to get the business stories out so people hear them too. I had no idea how many businesses in Idaho were already taking steps to address climate and carbon as part of their business model, and neither did a lot of other attendees. We are already seeing a shift in how we act and need to make smart decisions based on climate resiliency."

- Summit Participant

"There is a consequence to everything. What we do now will impact well beyond what we can fathom."

- Summit Participant

"We waste a lot of water in Idaho ... we as a society have values that need to change."

- Summit Participant



Brainstorm Session: Infrastructure

After the plenary sessions, participants moved into small group brainstorming sessions to discuss climate impacts on the first day and solutions on the second day. Summit participants represented a politically and economically diverse group with expertise in a wide array of fields. To represent the diversity of industry sectors, the breakout sessions were divided into three to five topic areas, depending on location. For example, Pocatello combined the topics into three groups and Ashton just had one group. In Boise and Moscow, the five breakout session topics were:

-  1) Forests and Wildfire
-  2) Health and Quality of Life
-  3) Recreation, Fish, and Wildlife
-  4) Agriculture and Rangeland
-  5) Infrastructure and Built Environment

"I feel like it was good to hear from a multitude of agencies and across disciplines that are affected by climate change. One facet that was missing was people on the land, farmers and ranchers. There is a large opportunity there to bring them into the discussions regarding changes to habitat that may affect grazing to lack of rainfall that affects cropping."

- Summit Participant

Opportunity Areas & Solutions

During the first day of breakout sessions, participants shared their stories or observations. In groups of 8 to 10 participants, they worked to identify challenge or problem areas that emerged from the conversations. The groups then turned the challenge areas into opportunities by responding to “How Might We . . .?” as a guiding question. The small groups also identified barriers to those opportunities. Analysis of the “How Might We” statements revealed that they naturally fit into five opportunity areas, regardless of the breakout session topic:

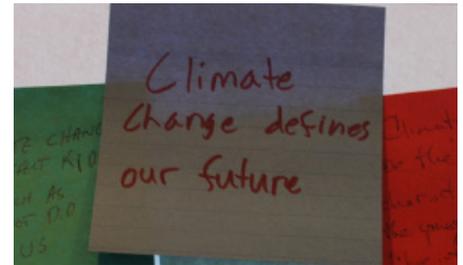
-  1) Collaborate
-  2) Change Mindsets and Communication
-  3) Use Metrics and Economics
-  4) Think in Systems
-  5) Focus on Local

On day two, after the groups brainstormed opportunity areas, they broke into smaller sub-groups of two to four participants and selected one solution to flesh out further. The sub-groups looked back to previously identified barriers and explored how to make each solution real. After further development, the sub-groups shared the fleshed-out solutions with their larger breakout group and then collectively chose the most implementable and inspiring ones to share with the rest of the Summit participants.

[Appendix 2, Summit Solutions](#), includes the “How Might We” statements and solutions, grouped by opportunity area.

“Idaho is missing out on opportunities to tap into our renewable energy resources. There is a lot happening in our neighboring states with regards to renewable energy, but Idaho policy is not friendly to renewables.”

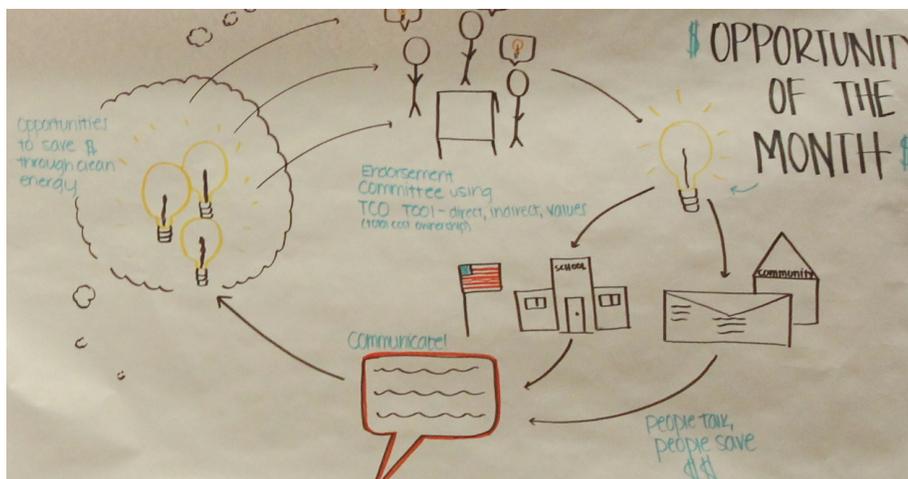
- Summit Participant



Brainstorm Session: Infrastructure



Brainstorm Session: Forestry and Fire



Brainstorm Session: Infrastructure



Brainstorm Session: Infrastructure

Next Steps

Presentations and breakout sessions at *Safeguarding Idaho's Economy in a Changing Climate* generated dozens of compelling solutions for Idaho (see [Appendix 2](#)). Participants expressed strong interest in beginning work on these solutions. On January 9, 2018, the Summit steering committee met to develop recommendations for post-Summit next steps based on participant input. During the four-hour workshop, committee members reviewed the values and vision underpinning the Summit, participant survey results, and the challenge areas and solutions generated at the breakout sessions (see [Appendix 3](#)). From that review, the committee members identified four key strategic opportunities to implement in the near future, detailed below. These represent opportunities deemed most viable and effective in building on the success of the Summit.

1. Idaho Risk Analysis:

Produce an Idaho economic risk analysis and solutions roadmap.



Use Metrics and Economics

2. Local Workshops:

Support workshops in local communities to foster dialogue and incubate solutions.



Focus on Local

3. Working Groups:

Promote solutions-focused, industry-specific, and cross-sector project teams to work on climate-related initiatives.



Think in Systems

4. Support Other Efforts:

Explore opportunities to add business perspective to the Northwest Climate Conference in Boise, October 2018.



Collaborate

Next Steps

1. Idaho Risk Analysis:

Produce an Idaho economic risk analysis and solutions roadmap.



Use Metrics and Economics

Speakers and participants at the Summit began identifying Idaho risks and opportunities while noting the need for more information and a deeper understanding to inform decision-making. The committee proposes that Idaho business associations, managers and research institutions develop a report on the economic impacts and possible solutions for Idaho's changing climate. This work will provide an evidence-based deeper dive on the dialogue created at the Summit. Committee members from the universities and the Society for American Foresters have agreed to initiate first steps around this topic and are looking for partners.

For this effort, communications and outreach will be just as important as data analysis. Promoting a dialogue around Idaho's changing climate requires engaging a large and diverse group of Idahoans. Partners will develop compelling and information-rich materials and an effective way to share them with community and business leaders. The committee envisions the report providing a clear roadmap for various businesses and industries in Idaho to incorporate and implement the presented information.

2. Local Workshops:

Support workshops in local communities to foster dialogue and incubate solutions.



Focus on Local

Participants at the Summit expressed a keen interest in continuing the conversation in their local communities. The committee proposes providing resources and support to help local leaders and managers drive community conversations tailored to local impacts and needs. Organizers would seek to promote the values of respect and collaboration that defined the Summit.

The format of the workshops will be flexible to match local conditions and priorities. Maintaining a respectful, neighborly atmosphere will be important to promote open dialogue. For example, Summit partici-

pants recommended conducting workshops at local libraries as a safe space to have challenging conversations. Some workshops may focus on the local chamber of commerce and business leaders, while others may use a town hall format aimed at a broader set of stakeholders.

The Idaho Water Resources Research Institute (IWRRI) is organizing two pilot workshops, scheduled to be held this spring. University of Idaho researchers will zero in on watershed impacts to inform a locally-led discussion around risks and resilience with respect to changes in temperature, precipitation, snow pack, wildfire, and air quality. The committee agreed to convene a group to further explore the opportunity for local workshops, building upon the initial IWRRI effort.

Next Steps

According to survey results, one of the biggest draws for participants at the Summit was the opportunity to network and collaborate within and across industry sectors. The committee is committed to supporting the incredible talent, energy, cross-sector sharing, and innovation of the Summit participants. The committee will seek opportunities to galvanize project teams made up of Summit participants and other Idahoans around new climate solutions as well as those produced at the Summit and outlined in [Appendix 2](#).

Project teams will seek opportunities to support existing industry workgroups with resources to showcase Idaho business and industry successes that demonstrate the business case for addressing the changing climate. Additionally, project teams will explore how to carry out the solutions proposed in [Appendix 2](#) as well as support new cross-sector collaborations. An integral goal of the project teams is to close the gap between state-wide university research and business use of university findings in pursuit of climate solutions.

This October, hundreds of researchers and natural resource managers from public, private and non-profit sectors, will gather in Boise at the annual [Northwest Climate Conference \(NWCC\)](#). The Conference is an opportunity to build on the momentum of the Idaho Climate Summit and to promote dialogue and problem solving between scientists and community and business leaders. To that end, Summit participants are working with NWCC planners to share the results and findings of *Safeguarding Idaho's Economy in a Changing Climate*. Business leaders and entrepreneurs will be invited to a pre-conference event focusing on business and climate.

3. Working Groups:

Promote solutions-focused, industry-specific, and cross-sector project teams to work on climate initiatives.



Think in Systems

4. Support Other Efforts:

Explore opportunities to add value to the Northwest Climate Conference in Boise, October 2018.



Collaborate

Media

Idaho news and media sources covered the Summit with at least 19 stories statewide between late October and early December 2017. Detailed coverage, including social media feeds, are included in [Appendix 4](#). Media included:



1. The Idaho Statesman
2. Idaho Business Review
3. Boise Weekly
4. Moscow - Pullman Daily News
5. Lewiston Tribune
6. Spokesman-Review (Spokane)
7. Idaho State Journal (Pocatello)
8. The Bengal (Idaho State University)
9. Capital Press (Ag newspaper for U.S. West)
10. Teton Valley News (Driggs)
11. KBSX Boise State Public Radio
12. KRBX, Radio Boise

Website

To share resources, post event details, and promote ticket sales, Summit organizers designed and developed a dynamic website at <http://www.idahoclimate-summit.com>. One of the key features of the site was the ability to live-stream the Summit, where viewers from around the state of Idaho watched the plenary sessions from their homes or offices. Since the launch of the website on July 7, 2017, the site received over 16,000 unique views.



“People aren’t connecting the dots. We need better storytelling to convey impacts of climate change and to make the abstract more concrete and personal. Human stories are moving and motivational.”

- Summit Participant

Social Media

To promote the Summit, the organizers built Facebook, Twitter, and LinkedIn pages and made a total of 59 Facebook posts and 79 Tweets, reaching 553 likes and 228 Twitter followers. Facebook reach is over 3,000 people in the target audience group. To boost posts and engagement, Summit organizers spent a small amount on ads, which reached over 12,000 in the target audience group. Follow or share posts and Tweets: @IDClimateSummit and #IDClimateSummit.



Safeguarding Idaho's Economy In a Changing Climate

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Appendix 1: Summit Overview

Summit Purpose and Organization

Safeguarding Idaho's Economy in a Changing Climate, held on November 16 & 17, 2017, brought together Idaho business and community leaders to share practical and innovative ways to meet the challenges of the current rapid shifts in Idaho's climate.

The purpose of the Summit was to:

- Explore market-based solutions to a changing climate
- Showcase successes of Idaho businesses in adapting to or mitigating climate change
- Share how Idahoans and communities are addressing or plan to address climate risks
- Identify risks for Idaho businesses and communities to give a sense of where we are positioned and if we are resilient
- Reveal and promote optimism and innovation
- Explore economic opportunities and efficiencies and build upon innovative ideas
- Expand discussions on local solutions and adaptations
- Build new collaborations, commitments, and ongoing forums
- Provide resources and references for short and long-term actions and small and large-scale innovations

Morning keynote and plenary sessions were held live at the Boise State University Student Union Building and live-streamed online to participants gathered in:

- University of Idaho, Idaho Commons Building, Moscow
- Idaho State University, Pond Student Union Building, Pocatello
- Henry's Fork Foundation Office, 801 Main St, Ashton, Idaho
- Various other locations around Idaho

Afternoon facilitated workshops using design-thinking were held live in Boise, Moscow, Pocatello, and Ashton. The following materials were provided to participants and are provided on the following pages of this appendix:

- Conference Program
- University of Idaho's James A. and Louise McClure Center for Public Policy Research, Idaho at a Glance: CLIMATE OVERVIEW
- List of attendee organizations that have authorized disclosure
- Agenda of Speakers and Session Descriptions for each Summit venue



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Conference Program



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Summit Program



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Schedule at a Glance

Venue	Thursday	Friday
Boise State University, Student Union Building, Jordan Ballroom	8:30am - 5:00pm MST Reception 5:00pm - 7:30pm MST	8:30am - 3:00pm MST
University of Idaho, Idaho Commons Building, Moscow	7:15am - 4:00pm PST	7:15am - 2:00pm PST
Idaho State University, Pond Student Union Building, Pocatello	8:15am - 5:00pm MST	8:15am - 3:00pm MST
Henry's Fork Foundation Office, Ashton	8:15am - 5:00pm MST	8:15am - 3:00pm MST





Dear Participant,

Thank you for joining us in this important conversation. For the first time, Idahoans join together for two days from almost every business sector and profession representing Idaho's economy and communities to share their real world solutions to a changing climate. All are committed to Idaho's future and the future of generations to come.

We invite you to reach across the table - bridging political, social, philosophical, and economic differences - and find common ground with your fellow participants. This summit is designed to engage your participation in solutions focused conversations. We are not here to debate, but rather, to collaborate. Thus we ask you to listen to each other, think outside the box, learn from each other and find ways we can work together.

Aligned with the vision of this Summit, the organizing of these two days was made possible by Idahoans collaborating across partisan and philosophical lines. The group of companies, community organizations and individuals who have come together to make this event possible is wide ranging. With 54 sponsors, more than 80 volunteers (facilitation and event support), as well as 15 planning committee members, this event is a great example of what can happen when committed individuals from diverse sectors, industries and perspectives work together.

We are excited to see what emerges from the conversations and are committed that the summit be valuable for your businesses, organizations, and communities. Remember to visit www.idahoclimatesummit.com for new resources and the post-summit report which is scheduled to be published on February 1, 2018. Help us keep the conversation going by engaging with us on Facebook and Twitter via @IDClimateSummit and #IDClimateSummit. Thank you for your contribution to this important conversation.

Sincerely,

The Planning Committee

Planning Committee

- **Bas Hargrove**, Senior Policy Representative, The Nature Conservancy
- **Gregg Servheen**, Idaho Chapter of the Wildlife Society
- **Jim Chandler**, Idaho Chapter of the American Fisheries Society
- **David New**, Snake River Chapter of the Society of American Foresters
- **Heather Kimmel**, Executive Director, American Lung Association in Idaho
- **Bryant Kuechle**, Northwest Area Manager, The Langdon Group
- **Mark Solomon**, Associate Director, Idaho Water Resources Research Institute, University of Idaho
- **Emily Erickson**, Sustainability Manager, Boise State College of Business and Economics
- **Colden Baxter**, Idaho State University
- **Linda Engle**, Idaho State University
- **Steven B. Daley-Laursen**, Professor, Dept. of Natural Resources and Society, University of Idaho, Moscow
- **Stefanie Krantz**, Sustainability Coordinator, Nez Perce Tribe Water Resources Division
- **Amber Bieg**, Warm Springs Consulting
- **Deb LaSalle**, Warm Springs Consulting
- **Kelsey Nunez**, Warm Springs Consulting



Sponsors

Investing in a resilient Idaho benefits us all. We could not accomplish our goals without the support, involvement and enthusiasm of our committed sponsors.



Hancock Forest Management | Idaho Rangeland Resource Commission | J.R. Simplot Company
 Trout Unlimited | Perkins Coie LLP | Shift Strategies | Centered Consulting Intl, LLC
 Outdoor Industry Association | Ziji Creative Resource Inc. | Learning and Development Consulting, LLC
 Generative Leadership Group LLC | CAW Consulting and Management | Illuminary
 The Freshwater Trust | Citizen's Climate Lobby | Jessica and Decker Rolph | Renewable Energy Northwest

Figure 8 Investment Strategies | Trent Jones | ISU Credit Union | Idaho Department of Parks and Recreation
 Janet and Russ Buschert





Exhibitors

Please take a moment to visit the exhibitor tables to learn about some exciting local solutions.

- American Institute of Architects Idaho
- Auric Solar
- Boise State University – College and Business Economics
- Boise State University Student Exhibits
- Bureau of Land Management
- Construction Specifications Institute
- Citizens' Climate Lobby
- D. L. Evans Bank
- Empowered Solar
- Generative Leadership Group, LLC
- Idaho Power Company
- Idaho Water Resources Research Institute
- Illuminary
- J-U-B Engineers
- James A. & Louise McClure Center for Public Policy Research
- OrePac Building Products
- Renewable Energy Northwest
- Shift Strategies
- The Freshwater Trust
- The Nature Conservancy
- Treasure Valley Canopy Network
- Trout Unlimited
- University of Idaho – Idaho Water Resources Research Institute (IWRRI)
- U.S. Department of Agriculture

Use The Blank Space for Your Notes:

Write down quotes, observations, “aha” moments . . . you will use this in the afternoon breakout session.

Plenary Session Presenters

See location specific agenda for **topical experts** in facilitated workshops.

- **Kate Gordon** - Senior Advisor at the Paulson Institute and Founding Executive Director of the Risky Business Project
- **David New** - Snake River Chapter, Society of American Foresters
- **Josiah Pinkham** - Nez Perce Tribe Cultural Resources and Climate Change Task Force
- **Bob Kustra** - President, Boise State University
- **Heather Kimmel** - Executive Director, American Lung Association in Idaho
- **Bryant Kuechle** - Northwest Area Manager, The Langdon Group
- **John Bernardo** - Sustainability Strategist, Idaho Power Company
- **Lynn Tominaga** - Executive Director, Idaho Ground Water Appropriators
- **Kira Finkler** - Idaho Water and Habitat Program Director, Trout Unlimited
- **Steve Burgos** - Public Works Director, City of Boise
- **Mark Solomon** - Associate Director, Idaho Water Resources Research Institute at the University of Idaho
- **Vincent Corrao** - President, Northwest Management Inc.
- **David Groeschl** - State Forester and Deputy Director of Forestry and Fire, Idaho Department of Lands
- **Gretchen Hyde** - Director, Idaho Rangeland Resource Commission
- **Chuck Staben** - President, University of Idaho
- **Allison Crimmins** - Lead author and coordinator of the U.S. Global Change Research Program's assessment on climate change and human health; environmental scientist in EPA's Office of Air and Radiation Climate Change Division
- **Steve Pew** - Environmental Health Director at Southeastern Idaho Public Health District
- **Stefanie Krantz** - Climate Change Coordinator, Nez Perce Tribe Water Resources Division
- **Amber Bieg** - Partner, Warm Springs Consulting
- **Toni Hardesty** - Idaho State Director, The Nature Conservancy
- **Rich Berger** - VP of Engineering, Food Supply at Clif Bar & Company
- **Erik Gonring** - Simplot Plant Sciences Industry Affairs and Sustainability Manager, J.R. Simplot Company
- **David Eichberg** - Sustainability and Social Innovation, Global Initiatives Lead, HP, Inc.
- **Julia Grant** - Sustainability and Natural Capital Strategist, Micron Technology
- **Aimée Christensen** - Founder and Executive Director of Sun Valley Institute and CEO of Christensen Global Strategies
- **Scott Flynn** - Founder, Flynnner Homes and Indie Dwell
- **Leif Elgethun** - Founder, Retrolux and Idaho Clean Energy Association
- **Lisa Cooper** - President, Figure 8 Investment Strategies
- **Amy Rene Lientz** - Director, Partnerships, Engagement and Technology Deployment, Idaho National Laboratory
- **Tom Michael** - General Manager, Boise State Public Radio



Plenary Session Notes:

Write down quotes, observations, “aha” moments . . . you will use this in the afternoon breakout session.





About the Breakout Sessions

The Summit has topically-focused breakout sessions in which experts will introduce a solutions-based conversation followed by four exercises that borrow from a Design Thinking methodology called Human Centered Design (HCD). Design Thinking is a well-proven method of problem solving that uses empathy for understanding the context of a problem, creativity in identifying insights and possible solutions, and rationality in analyzing and planning various solutions. For this particular workshop, we are pulling from the HCD Toolkit, available at <https://www.ideo.com/post/design-kit>, which integrates deep social listening into an additive idea building design process, which includes rapid prototyping, community feedback, and iteration. This process moves from empathy into creativity, resulting in highly successful solutions.

Each facilitated workshop will have a main Workshop Facilitator (one per topic) and small-group facilitators (one per group of around ten participants). In total we have around 45 facilitators. These professional facilitators, many with decades of experience in facilitation, have generously volunteered their time to help guide you through the breakout session conversations.

Breakout Session Notes:

Write down quotes, observations, “aha” moments . . .

Thank You to All Our Volunteers!

Volunteer Facilitators

This event would not be possible without you!

Boise

- Amber Bieg
- Deborah LaSalle
- Beth Geagan
- Max Stein
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- Mark Stinson
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- Melissa Muradian

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Abbie Hagen, Alexandra Monjar, Alyssa Lu, Amber Alder, Avery Lavoie, Connor Ohora, Conner Weygint, Carolyn Swenson, Carolyn Volk, David Eichberg, Donna Hiller, Ed Jewell, Ed Wardwell, Emily Walker, Erin McCarter, Gary Kunz, Gina Lockwood, Heidi Zschach, Holly Yeager, Jane Rohling, Kayti Didricksen, Keri York, Kevin Laughlin, Kim Flanders, Kristin Gnojewski, Linda Rytterager, Madonna Lengerich, Malcolm Moncheur, Mark LaSalle, Peter Palmer, Reecha Sapkota, Rob Van Kirk, Sanjay Thakkar, Sean Finn, Shane Vatland, Sue Chew, Tess O'Sullivan, Will Weygint, Bryce Contor, Sheryl Hill, Mike Engle, Tiffany Overton

Special Thank You To . . .

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- **Linda Engle** at ISU for making the Pocatello event happen
- **Holly Yeager** with Real Change LLC for hugely supporting our Moscow event
- **Rob Van Kirk** at Henry's Fork Foundation for supporting the Ashton event
- **Hiedi Zschach** for distributing fliers for us and looking for sponsored parking for our volunteers
- **Erin McCarter** for organizing volunteers
- **Representative Sue Chew** for finding us more volunteers
- **Malcom Moncheur** for blog writing

Idaho at a Glance: CLIMATE OVERVIEW

Idaho's economy depends on its natural resources. From small farms to diverse agribusinesses, high-tech to hydropower, forests to forest products, and recreation technology to tourism, key economic drivers require clean water and healthy land. The changing climate is affecting Idaho's natural resources, posing risks and opportunities for Idaho businesses and communities. This *Idaho at a Glance* focuses on wildfire frequency, water availability, and human health – all of which impact Idaho's economy.

November 2017, Vol. 8, No. 4

Wildfire

Wildfire, climate, and precipitation are connected. Earlier spring snowmelt coupled with warmer summer temperatures results in drier vegetation and a longer period of fire potential in forests of the Northern Rockies. Earlier drought conditions also slow forest growthⁱ. Fire also leads to significant property damage, including loss of historical buildings and monuments. Increases in the fire season length could have major consequences for the wood and paper industry, which contributes \$1.3B to Idaho's gross domestic productⁱⁱ.

The Western U.S. wildfire season **increased from 5 months** in the 1970s **to 7 months today**ⁱⁱⁱ.

Since 1986, longer, warmer summers in the Western U.S. have resulted in **4X as many major wildfires** and **6X as much area of forest burned**, compared to 1970-1986. The **average timespan** of large fires has **increased** from **7.5** to **37.1** days.^{iv}

Warming since the 1970s

has been responsible for about half the **increased dryness** in Western U.S. forests.

The **drier** it was, the **more forest burned**.

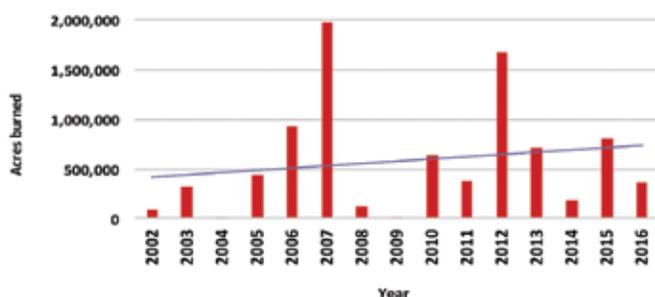
The **number of acres burned** in the Western U.S. **doubled** between 1984 and 2015, adding an extra **10M** acres of charred trees and an additional 10M acres of fire activity, equivalent to **1/5 of the state of Idaho**^v.

A changing climate can facilitate invasive species growth.

Invasive species, such as cheatgrass, **increase fuel loads** in grassland ecosystems and **contribute to fire frequency**.

Drought heightened by warming temperatures **weakens trees** and **increases susceptibility** to bark beetle attacks.

Wildland Acres Burned in Idaho, 2002-2016



In 2015: 804,000 acres burned in Idaho, with \$72,350,000 spent in fire suppression costs

SOURCE: National Interagency Fire Center

Water

Climate impacts water availability and water temperature, reflected in changing streamflow, spring snow water equivalent, and fish habitat. Outdoor recreation intersects with water, and is an important aspect of Idaho's economy.

Water availability: At most locations across Idaho, substantial **declines in spring snow water equivalent** have occurred over the past 50 years. The largest losses occurred below 3000 feet, consistent with **temperature increases** during winter and early spring. Observations from stream gauges across Idaho show a **15% decrease in cumulative annual streamflow** over the last half century^{vi, vii}.

Fish habitat: In the Boise River, **10-20% of bull trout stream habitat was lost** between 1993 and 2006, with **increasing water temperatures** impacting adult spawning and juvenile rearing. Stream **temperatures increase in recently burned watersheds**, further limiting habitat^{viii}.

Outdoor recreation in Idaho: Supports **37,000 jobs**, generates **\$154M** in annual state tax revenue, and produces **\$2.2B** annually in retail sales and services, accounting for more than **5%** of gross state product.

ⁱ Nez Perce Tribe Water Resources Division (2011). "Clearwater River Subbasin (ID) Climate Change Adaptation Plan.

ⁱⁱ University of Idaho (2017). Idaho Forest, Wildlife and Range Experiment Station Bulletin No. 105

ⁱⁱⁱ <https://e360.yale.edu/features/the-evidence-is-clear-a-warmer-world-means-more-wildfires>

^{iv} Klos PZ et al. (2015). "Indicators of Climate Change in Idaho: An Assessment Framework for Coupling Biophysical Change and Social Perception." *Weather, Climate, and Society*. 7: 238-254 and www.idahoclimate.org

^v Abatzoglou JT and PT Williams (2016). "Impact of Anthropogenic Climate Change on Wildfires across Western U.S. Forests." *Proceedings of the National Academy of Sciences*. 113: 11770-75.

^{vi} <http://waterdata.usgs.gov/nwis>

^{vii} Luce CH, Abatzoglou JT, Holden ZA (2013). "The Missing Mountain Water: Slower Westerlies Decrease Orographic Enhancement in the Pacific Northwest USA." *Science*. 342: 1360-64.

^{viii} Isaak DJ, Luce CH, Rieman BE, Nagel D, Peterson EE, Horan DL, Parkes S, Chandler GL (2010). "Effects of Climate Change and Wildfire on Stream Temperatures and Salmonid Thermal Habitat in a Mountain River Network." *Ecological Applications* 20: 1350-71.

^{ix} U.S. Centers for Disease Control and Prevention and U.S. Public Health Commission.

^x Dalton MM, Mote PW, Snover AK (2013). *Climate Change in the Northwest: Implications for Our Landscapes, Waters, and Communities*. Island Press.

^{xi} 3rd U.S. National Climate Assessment (2014). Chapter 12: Indigenous Peoples.

University of Idaho

McClure Center for Public Policy Research

uidaho.edu/mcclurecenter



The University of Idaho's James A. and Louise McClure Center for Public Policy Research was founded in 2007. The Center's approach to addressing society's complex issues sustains Senator McClure's legacy of thoughtfully pursuing bipartisan collaborations and sound public policy. View the full series of *Idaho at a Glance* at uidaho.edu/IdahoataGlance

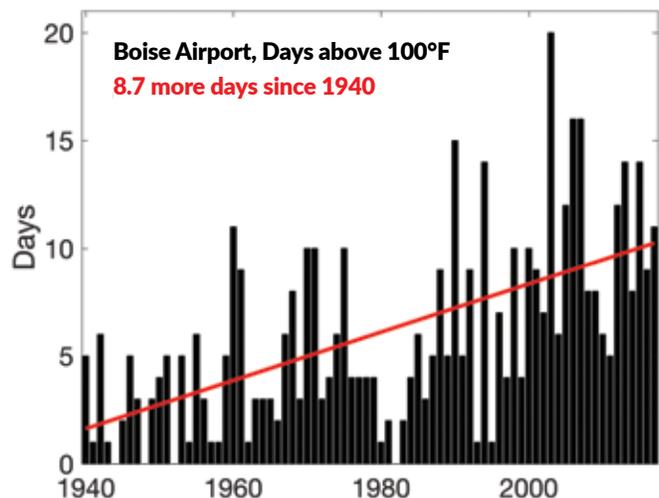
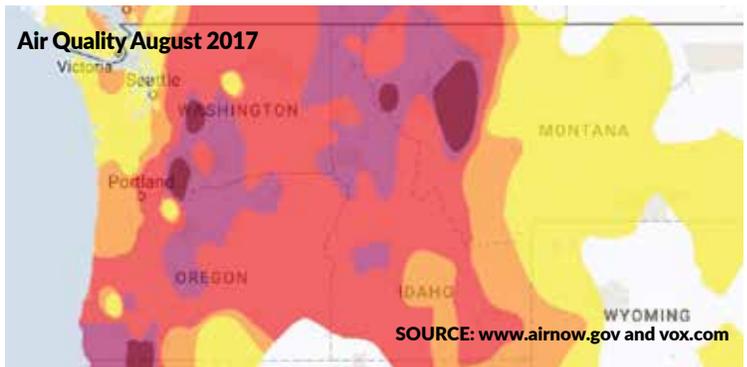
Human Health

Human health is impacted by climate. Increasing temperatures lead to more fire, extreme heat, air pollution, and heat-related illness, influencing workforce productivity, healthcare costs, and property damage.

Air quality and human health intersect: **Allergies and asthma increase** with decreased air quality. Elderly and children are **most at risk** in conditions of extreme heat^{ix}.

Disease and climate intersect: West Nile Virus (WNV) is a vector-borne disease present in the Pacific Northwest (Idaho, Oregon, and Washington). During the last 10 years, Pacific Northwest cases peaked in 2006, with 1068 confirmed cases. Of these, **996 were in Idaho**, which led the U.S. **Increased temperatures** are correlated with **greater WNV distribution**^x.

Tribal Nations: A changing climate **threatens Native Peoples' access to traditional foods**, such as fish, game, and wild and cultivated crops. These provide sustenance, and cultural, economic, medicinal, and community health for generations^{xi}.



List of Attendee Organizations*

Businesses

- 22 Designs
- Bioscience Bridge, LLC
- Bluwater Solutions LLC
- CAW Consulting & Management
- Center for Ecohydraulics Research
- Centered Consulting International, LLC
- CHS Primeland
- Clif Bar & Company
- Clif Bar Baking Company of Twin Falls
- Crazy M Ranch
- CSHQA
- D.L. Evans Bank
- Drake & Dexter Consulting
- Dupont Tyvek Specialist
- Eco Edge
- Ecosystems Sciences
- Empowered Solar
- Evergreen Magazine: The Evergreen Foundation
- Figure 8 Investment Strategies
- Flynn Design+Build & Indie Dwell
- Generative Leadership Group, LLC
- Growing Excellence Inc.
- Hancock Forest Management
- HP Inc.
- IDA Consulting Services, Inc.
- Idaho Business Review
- Idaho Power Company
- Idaho SBDC
- Illuminary
- Intermountain Healthcare
- J.R. Simplot Company
- Jeremy C Jeffers, Architect, LLC
- Law Office of Edward J. Jewell
- Learning & Development Consulting
- Lisa Hecht @ Associates, LLC
- McCain Food USA, Inc
- Meadowlark Farm
- Micron Technology, Inc.
- Morgan Reynolds Real Estate Group
- Northwest Management, Inc.
- Northwest Plug It In LLC
- Perkins Coie

*Organizations that authorized disclosure of their participation

- Potlatch Corporation
- POWER Engineers
- QB Consulting
- Real Change LLC
- Renewable Energy NW, LLC
- Retrolux
- RTCI
- Saint Alphonsus Hospital
- Shift Strategies
- Sustainable Investments
- The Langdon Group
- TriBe Engineering
- Vertical Market Specialist
- Warm Springs Consulting
- Wastren Advantage, Inc. (WAI)
- Wholesale Nursery

Government Agencies

State

- Idaho Barley Commission
- Idaho Central District Health Department
- Idaho Department of Environmental Quality
- Idaho Department of Fish and Game
- Idaho Department of Health and Welfare
- Idaho Department of Labor
- Idaho Department of Lands
- Idaho Department of Parks and Recreation
- Idaho Department of Water Resources
- Idaho Forest Products Commission/Project Learning Tree
- Idaho Groundwater Appropriators Association, Idaho Ground Water Association, and Idaho Irrigation Pumpers Association
- Idaho Legislature
- Idaho North Central District Health Department
- Idaho Office of Emergency Management
- Idaho Transportation Department
- Southeastern Idaho Public Health

Tribes

- Nez Perce Tribe
- Upper Snake River Tribes

Federal

- Boise VA Medical Center
- Idaho Army National Guard
- U.S. BLM Boise District Office
- U.S. Bureau of Land Management

- U.S. Bureau of Reclamation
- U.S. EPA
- U.S. Fish and Wildlife Services
- U.S. Forest Service
- USDA Natural Resources Conservation Service

Counties

- Association of Idaho Counties
- Blaine County
- Latah County
- Owyhee County
- Teton County

Cities

- City of Boise
- City of Moscow
- City of Pocatello

Education

Universities

- Boise State University
- Boise State University, Responsible Business Initiative, College of Business and Economics
- Idaho State University
- McClure Center for Public Policy Research
- Oregon State University
- Stanford University
- University of Idaho
- University of Idaho McClure Center for Public Policy Research
- University of Idaho Rangeland Center
- University of Idaho Water Resources Program
- University of Idaho Water Resources Research Institute
- University of Nebraska, Omaha, College of Community Service and Public Affairs

Other

- Boise School District
- PCS Edventures

Media, Nonprofits, Societies and Associations

- Citizens' Climate Lobby
- Conservation Voters for Idaho
- Golden Eagle Audubon Society
- Greater Yellowstone Coalition
- Henry's Fork Foundation

- Horses for Clean Water
- Idaho Association of Commerce and Industry
- Idaho Chapter of the American Fisheries Society
- Idaho Conservation League
- Idaho Dairymen's Association, Inc.
- Idaho Master Naturalist-Sagebrush-Steppe Chapter
- Idaho Outdoor Business Council
- Idaho Outfitters & Guides Association
- Idaho Rangeland Resource Commission
- McPaws Regional Animal Shelter
- Outdoor Industry Association
- Paulson Institute
- Portneuf Resource Council
- Salmon Valley Stewardship
- Snake River Chapter, Intermountain Society of American Foresters
- Snake River Salmon Solutions
- Teton Regional Land Trust
- The Freshwater Trust
- The Nature Conservancy
- The Partnership for Economic Prosperity
- The Spokesman-Review
- Trout Unlimited
- Turtle Island Research Cooperative
- U.S. Green Business Council Idaho
- Winter Wildlands Alliance
- YMCA Treasure Valley

Plenary Speakers and Sessions

Designing the agenda was one of the most stimulating aspects of Summit planning. The planning committee sought to ensure that all major aspects of Idaho's economy were addressed and that the discussion was framed with a solutions-oriented mindset. A critical first step was agreeing that Idaho businesses are experiencing various types of climate impacts and a lot could be accomplished if the need to assign political or regulatory blame was released. Thus, the agenda was based upon the premises that Idaho's climate is changing and that Idahons can and should work together in a cross-disciplinary manner to take actions to safeguard our natural resource-based economy.

The plenary sessions were designed to: (1) provide a shared experience for participants across the state; (2) frame the environmental impacts specific to Idaho and Idaho's major industries; and (3) elevate the voices of the private sector and industrial players.

Thursday morning's welcome session featured an introduction from David New of the Snake River Chapter of Society of American Foresters and a member of the Summit planning committee. Mr. New framed the agenda and expressed the ambitious goals of the planning committee. Boise State University President Bob Kustra welcomed and expressed gratitude to the participants. Josiah Pinkham, with the Nez Perce Tribe Cultural Resources and Climate Change Task Force, gave an invocation and offered participants the opportunity to reflect upon the spiritual and cultural significance of using Idaho's natural resources, creating an opportunity to connect emotionally to the work that was ahead of us over the next two days.

Kate Gordon, Senior Advisor at the Paulson Institute and Founding Executive Director of the Risky Business Project provided the keynote speech, presenting an inspiring assessment of the economic opportunities available in Idaho, particularly if we harness the value of our abundant natural resources to serve the renewable energy needs of neighboring states. Her focus on the balance of economic risk and reward provided a positive and hopeful framework for the next sessions. [Click here to view the presentation by Kate Gordon.](#)

Heather Kimmel, Executive Director of the American Lung Association in Idaho and Bryant Kuechle, the Northwest Area Manager of The Langdon Group (both members of the planning committee), then led participants through a presentation of "Risks and Impacts: Water, Land, Health, Businesses, and Communities." Noting the lack of a comprehensive yet easy to understand synthesis of climate impacts in Idaho, the planning committee partnered with the McClure Center for Public Policy Research to produce the [Idaho At-A-Glance: Climate Overview](#). This report was the factual basis for the presentation which intended to: (1) provide an overview of wildfire frequency, water availability, and human health; and (2) establish a common understanding of impacts to key economic drivers in Idaho, including small farms, diverse agribusinesses, high-tech, hydropower, forests and forest products, recreation technology, and tourism. Members of the audience representing various sectors of the community were asked to share how the changing climate was impacting them, their clients, and employees. [Click here to access the Risk and Impact slides and the Idaho At-A-Glance report.](#)

After participants were provided the overview of impacts to health, quality of life, water, agriculture, and forests, the next panel dived into "The Effects of Drought and Increased Water Temperatures." Mark Solomon, the Associate Director at the University of Idaho's Idaho Water Resources Research Institute, moderated the panel. John Bernardo, the Sustainability Strategist of Idaho Power Company, shined light of the many complex layers involved with delivering affordable energy while managing potential impacts from increasing water temperature, less predictable water supply, and diminished air quality. Lynn Tominaga, Executive Director the Idaho Ground Water Appropriators, explained how competing uses of our shared ground water resource can lead to conflict as the resource dwindles. Kira Finkler, Idaho Water and Habitat Program Director of Trout Unlimited, described the increasing pressure on Idaho's cold water fish as water temperatures increase,

stressing the need to collaborate with various water users to preserve the species that bring so much vigor to Idahoans' heritage and quality of life. Steve Burgos presented the municipal perspective of water management as Boise's Public Works Director, sharing strategies for balancing water pollution prevention, renewable energy generation, and waste management. [Click here to access the slides from this panel.](#)

"The True Cost of Wildfire" panel continued the cross-disciplinary look at impacts and emphasized the costs and lost opportunities to rangelands, farms, forests, fish, wildlife, recreation, air quality and human health. In addition to financial losses, panelists shared how families suffer emotional devastation when fires destroy their land and interfere with their livelihoods. This panel covered a wide ranging spectrum of impacts to Idaho's way of life and was led by Vincent Corrao, President, Northwest Management Inc.; David Groeschl, State Forester and Deputy Director of Forestry and Fire with the Idaho Department of Lands; Gretchen Hyde, Director of the Idaho Rangeland Resource Commission; and David New with the Snake River Chapter of the Society of American Foresters (as moderator). [Click here to access slides.](#)

Prior to breaking for lunch, University of Idaho President Chuck Staben reviewed the myriad ways in which UI's research arm could assist the private sector in understanding and responding to Idaho's changing climate.

The Challenges to Human Health and Quality of Life panel provided an interesting overview of how a changing climate is impacting tourism, recreation, business recruitment, quality of life, rural and urban economies, health, and the common reasons Idahoans choose to live in Idaho. The panel and moderators represented a broad range of expertise: Allison Crimmins, the lead author and coordinator of the U.S. Global Change Research Program's assessment on climate change and human health and environmental scientist in EPA's Office of Air and Radiation Climate Change Division; Steve Pew, Environmental Health Director at Southeastern Idaho Public Health District; Josiah Pinkham, Cultural Resources and Climate Change Task Force, Nez Perce Tribe; Heather Kimmel, Executive Director, American Lung Association in Idaho; and Stefanie Krantz, Climate Change Coordinator, Nez Perce Tribe Water Resources Division (Kimmel and Krantz moderated). [Click here to access slides.](#)

On Friday morning, Toni Hardesty, the Idaho State Director of The Nature Conservancy, recapped Thursday's panel discussions and facilitated workshops and reminded participants about the benefits to Idaho's economy to be derived from the conversations started at the Summit.

Friday's panels were all about opportunities and innovations. The panel on "Innovative Solutions by Idaho's Industrial Leaders" was a fascinating look into the challenges and successes of Idaho's largest corporations' journeys with managing energy, water use, transportation, supply chains, and impacts of extreme weather. This panel was led by Rich Berger, Vice President of Engineering and Food Supply for Clif Bar & Company; Erik Gonring, Simplot Plant Sciences Industry Affairs and Sustainability Manager for the J.R. Simplot Company; David Eichberg, Sustainability and Social Innovation, Global Initiatives Lead at HP, Inc.; and Julia Grant, Sustainability Program Manager, Micron Technology Inc. (moderator). These industrial powerhouses dived deep into the complex nature of managing both the local and global response to a changing climate.

Finally, participants heard from a panel of social entrepreneurs and innovators that are creating jobs and driving Idaho's economy with a focus on environmentally conscious businesses. The inspiring and insightful presentations in the "New Business Opportunities and Solutions for Idaho" panel demonstrated how capital flows into mission driven businesses and how creative business practices can create thoughtful responses to Idaho's changing climate. That panelists were Scott Flynn, Founder of Flynn Homes and Indie Dwell; Leif Elgethun, Founder of Retrolux and Idaho Clean Energy Association; Lisa Cooper, President, Figure 8 Investment Strategies; Amy Rene Lientz, Director of Partnerships, Engagement and Technology Deployment at the Idaho National Laboratory; and Aimée Christensen, Founder and Executive Director of Sun Valley Institute and CEO of Christensen Global Strategies (moderator). [Click here to access slides.](#)



Safeguarding Idaho's Economy In a Changing Climate

Nov 16 -17

2017

Our Land, Our Water, Our Health, Our Future

www.idahoclimate summit.com

Summit Agendas



Safeguarding Idaho's Economy In a Changing Climate

Nov 16 -17
2017

Our Water, Our Land, Our Health, Our Future

Boise Agenda updated Nov. 10 - Speakers and topics subject to change. Sessions in gold are livestreamed via www.idahoclimatesummit.com.

Thursday, November 16, 8:30AM - 2:40PM MST - Jordan Ballroom, Student Union Building
Boise State University (Livestreamed)

Time	Description	Presenters
8:30 am - 9:00 am	Welcome Invocation, welcome and overview of the summit	MC - Tom Michael, General Manager, Boise State Public Radio David New - Snake River Chapter, Society of American Foresters Bob Kustra - President, Boise State University Josiah Pinkham - Nez Perce Tribe Cultural Resources and Climate Change Task Force
9:00 am - 9:30 am	Keynote: Safeguarding Idaho's Economy in a Changing Climate Evidence of a changing climate is all around us, from flooding in Houston and Florida to excessive heat and wildfires in the West. These physical climate impacts have real economic costs to Idaho businesses and communities. But there is also economic opportunity to be found in adapting to, and mitigating, these risks. This talk will focus on quantifying the risks to this region, and identifying the real growth and competitiveness opportunities facing this state as the rest of the world moves toward a carbon-constrained economy.	Kate Gordon - Senior Advisor at the Paulson Institute and Founding Executive Director of the Risky Business Project Click here to access slides.
9:30 am - 10:15 am	Risks and Impacts: Water, Land, Health, Businesses and Communities Idaho's economy is dependent upon our natural resources, such as forests, fish and wildlife, as well as the vitality of our communities. Various sectors are experiencing impacts and costs associated with a changing climate. This panel will provide an overview of the measured and perceived risks, impacts and costs to Idaho based on data collected by the McClure Center.	Heather Kimmel - Executive Director, American Lung Association in Idaho Bryant Kuechle - Northwest Area Manager, The Langdon Group Click here to access slides and At-A-Glance report.

Thursday, Continued: November 16, 8:30AM-2:40PM MST - Jordan Ballroom, Student Union Building
Boise State University (Livestreamed)

Time	Description	Presenters
10:15 am - 10:30 am	Break	
10:30 am - 11:30 am	<p>The Effects of Drought and Increased Water Temperatures Panelists will address how they are planning for and adapting to changes in water availability, water quality, and timing/type of precipitation.</p>	<p>John Bernardo - Sustainability Strategist, Idaho Power Company Lynn Tominaga - Executive Director, Idaho Ground Water Appropriators Kira Finkler - Idaho Water and Habitat Program Director, Trout Unlimited Steve Burgos - Public Works Director, City of Boise Moderator: Mark Solomon - Associate Director, University of Idaho, Idaho Water Resources Research Institute</p> <p>Click here to access slides.</p>
11:30 am - 12:30 pm	<p>The True Cost of Wildfire Panelists will discuss how we can manage wildfire and create market opportunities that protect Idaho's economy as we respond to impacts on rangelands, farms, forests, fish, wildlife, recreation, air quality and human health.</p>	<p>Vincent Corrao - President, Northwest Management Inc. David Groeschl - State Forester and Deputy Director of Forestry and Fire, Idaho Department of Lands Gretchen Hyde - Director, Idaho Rangeland Resource Commission Moderator: David New - Snake River Chapter, Society of American Foresters</p> <p>Click here to access slides.</p>
12:30 pm - 12:35 pm	Pre-Lunch Remarks	Chuck Staben - President, University of Idaho
12:35 pm - 1:15 pm	Lunch: Free time to build connections and collaborations	
1:15 pm - 2:15 pm	<p>Challenges to Human Health and Quality of Life Panelists will discuss Idaho's changing climate within a cultural framework that acknowledges the responses to changes in tourism, recreation, business recruitment, quality of life, rural and urban economies, health, and common reasons Idahoans choose to live in Idaho.</p>	<p>Allison Crimmins - Lead author and coordinator of the U.S. Global Change Research Program's assessment on climate change and human health; environmental scientist in EPA's Office of Air and Radiation Climate Change Division Steve Pew - Environmental Health Director at Southeastern Idaho Public Health District Josiah Pinkham - Cultural Resources and Climate Change Task Force, Nez Perce Tribe Moderators: Stefanie Krantz - Climate Change Coordinator, Nez Perce Tribe Water Resources Division Heather Kimmel - Executive Director, American Lung Association in Idaho</p> <p>Click here to access slides.</p>

Thursday, Continued: November 16, 8:30AM - 2:40PM MST - Jordan Ballroom, Student Union Building, Boise State University (Life Streamed)

2:15 pm - 2:30 pm	Introduction to Breakout Sessions Participants will gain insights on the Summit's model for facilitated problem solving and how to most effectively participate in the afternoon's workshops. Participants are encouraged but not required to attend the same workshop both days.	Amber Bieg - Partner, Warm Springs Consulting
2:30 pm - 2:40 pm Break: short break and head to breakout sessions		

Thursday Facilitated Breakout Sessions: 2:40 - 5:00 PM MST Framing Impacts and Identifying Challenges - Rooms TBA, Student Union Building, Boise State University

2:40 pm - 3:15 pm	Five Facilitated Breakout Sessions: Panel Discussion Each of the five break-out session will begin with a panel of local topical experts outlining the major climate-related issues facing their industry and framing the questions for workshops.	
3:15 pm - 5:00 pm	(1) Forests and Wildfire What are the costs and impacts of increased forest/wildfires? What are the challenges and barriers to success? Topical experts: <ul style="list-style-type: none"> David Groeschl - State Forester and Deputy Director of Forestry and Fire, Idaho Department of Lands Gretchen Hyde - Director, Idaho Rangeland Resource Commission Vincent Corrao - President, Northwest Management Inc. 	
3:15 pm - 5:00 pm	(2) Health and Quality of Life What are the major impacts to health and quality of life, what are the common themes and issues? Topical experts: <ul style="list-style-type: none"> Allison Crimmins - lead author and lead coordinator of the U.S. Global Change Research Program's assessment on climate change and human health; environmental scientist in EPA's Office of Air and Radiation, Climate Change Division Colby Adams - Environmental Health Director, Idaho Department of Health and Welfare Rebecca L. Som Castellano - Ph.D., Department of Sociology, Boise State University Stefanie Krantz - Climate Change Coordinator, Nez Perce Tribe Water Resources Division Bill Weppner, M.D. - Assistant Professor, Staff Physician and Director, Center of Excellence in Primary Care Education at Boise VA Medical Center 	
3:15 pm - 5:00 pm	(3) Recreation, Fish and Wildlife What is at stake in the face of a changing climate in Idaho? What might we lose and who does it affect? Topical experts: <ul style="list-style-type: none"> Gregg Servheen - Wildlife Program Coordinator, Idaho Department of Fish and Game Charlie Luce - Research Hydrologist, US Forest Service Grant Simonds - Executive Director of the Idaho Outfitter and Guides Association Andrew Pappas - Outdoor Industry Association 	

Thursday Facilitated Breakout Sessions Continued: 2:40 - 5:00 PM MST

Framing Impacts and Identifying Challenges - Rooms TBA, Student Union Building, Boise State University

3:15 pm - 5:00 pm	<p>(4) Agriculture and Rangeland</p> <p>What are the risks and impacts to our agricultural sector? What are ranchers and farmers observing and how is it affecting their businesses?</p> <p>Topical experts:</p> <ul style="list-style-type: none">• John Steiner - Wind energy developer and agricultural entrepreneur• Jason Karl - Associate Professor of Rangeland Ecology, University of Idaho• Juliet Marshall - Ph.D., Professor, Cereals Pathology and Agronomy, University of Idaho• Stephanie Kulesza - Nutrient and Water Management Specialist at IDA Consulting Services
3:15 pm - 5:00 pm	<p>(5) Infrastructure and Built Environment</p> <p>What is the role of infrastructure in cities in the changing climate or with respect to reduced pollution and increased quality of life? What are the risks to communities and how can urban infrastructure handle extreme weather?</p> <p>Topical experts:</p> <ul style="list-style-type: none">• Sharon Patterson Grant - LEED AP BD+C and Homes, Owner - Eco Edge• Ty Morrison - American Institute of Architects & Construction Management Lecturer, Boise State University• John Gardner - Boise State, Energy Efficiency Research Institute at Idaho's Center for Advanced Energy Studies and director of the regional Industrial Assessment Center

Reception: 5:00 pm-7:30 pm MST - Stueckle Sky Center, Skyline Room - Boise State University

Friday, November 17: 8:30 - 10:50 AM MST - Jordan Ballroom, Student Union Building
Boise State University (Livestreamed)

Time	Description	Presenters
8:30 am - 8:45 am	Welcome Back Overview of day	MC: Tom Michael - Executive Director, Boise State Public Radio Toni Hardesty - Idaho State Director, The Nature Conservancy
8:45 am - 9:45 am	Innovative Solutions by Idaho's Industrial Leaders Challenge and success stories from Idaho's industrial leaders about their response to our changing climate: How to manage energy, water use, transportation, supply chain, and impacts of extreme weather.	Rich Berger - Vice President of Engineering, Food Supply, Clif Bar & Company Erik Gonring - Simplot Plant Sciences Industry Affairs and Sustainability Manager, J.R. Simplot Company David Eichberg - Sustainability and Social Innovation, Global Initiatives Lead, HP, Inc. Moderator: Julia Grant - Sustainability Program Manager, Micron Technology Inc.
9:45 am - 10:45 am	New Business Opportunities and Solutions for Idaho Panelists will share their experiences developing new business models emphasizing social entrepreneurship and discuss how to support the creation of more economic opportunities in Idaho.	Scott Flynn - Founder, Flynnner Homes and Indie Dwell Leif Elgethun - Founder, Retrolux and Idaho Clean Energy Association Lisa Cooper - President, Figure 8 Investment Strategies Amy Rene Lientz - Director, Partnerships, Engagement and Technology Deployment, Idaho National Laboratory Moderator: Aimée Christensen - Founder and Executive Director of Sun Valley Institute and CEO of Christensen Global Strategies Click here to access slides.
10:45 am - 10:50 am	Quick Refresher on Breakout Sessions Participants will gain insights on the Summit's model for facilitated problem solving and how to most effectively participate in the afternoon's workshops. Participants are encouraged but not required to attend the same workshop both days.	Amber Bieg - Partner, Warm Springs Consulting
10:50 am - 11:00 am	Grab bagged lunch and head to facilitated breakout sessions	

Friday Facilitated Breakout Sessions: 11:00 am -1:30 pm MST Brainstorming Solutions with Working Lunch - Rooms TBA

11:00 am - 11:30 am	<p>Five Facilitated Breakout Session: Solutions with Working Lunch Return to breakout groups to develop solutions with 30 minutes of topical expert panelists opening the discussion with stories of solutions in their sectors.</p>
11:30 am - 1:30 pm	<p>(1) Forests and Wildfire Questions to explore: How might we seize market opportunities while adapting to increased forest/wildfires? How might we manage silvicultural operations to protect the industry for future generations, create new markets for forest residues and fire damaged resources, manage habitat and recreation resources, and increase the number of trees around the state?</p> <p>Topical experts:</p> <ul style="list-style-type: none"> ● Natalie Little - Regional Sustainability and Climate Coordinator, U.S. Forest Service Intermountain Regional Office ● Vincent Corrao - President, Northwest Management Inc. ● Gretchen Hyde - Director, Idaho Rangeland Resource Commission ● David New - Snake River Chapter, Society of American Foresters
11:30 am - 1:30 pm	<p>(2) Health and Quality of Life Questions to explore: How might we increase local capacity to address the human health impacts of a changing climate? How might we improve quality of life in light of increased pollutants, changing disease and weather patterns, and fear and uncertainty around a changing climate?</p> <p>Topical experts:</p> <ul style="list-style-type: none"> ● Allison Crimmins - Lead author and lead coordinator of the U.S. Global Change Research Program’s assessment on climate change and human health; environmental scientist in EPA’s Office of Air and Radiation, Climate Change Division ● Colby Adams - Department of Health and Welfare ● Rebecca L. Som Castellano - Ph.D., Dept of Sociology, Boise State ● Stefanie Krantz - Climate Change Coordinator, Nez Perce Tribe Water Resources Division ● Dr. Christine Hahn - Department of Health and Welfare
11:30 am - 1:30 pm	<p>(3) Recreation, Fish and Wildlife Questions to explore: How might Idaho's outdoor recreation, fish, wildlife, and natural resource industries adjust to changes in fire frequency and intensity and changes in snow and water quantity and quality?</p> <p>Topical experts:</p> <ul style="list-style-type: none"> ● Gregg Servheen - Wildlife Program Coordinator, Idaho Department of Fish and Game ● Charlie Luce - Research Hydrologist, US Forest Service ● Grant Simonds - Executive Director of the Idaho Outfitter and Guides Association ● Andrew Pappas, Outdoor Industry Association

Friday Facilitated Breakout Sessions, Continued: 11:00 am - 1:30 pm MST Brainstorming Solutions with Working Lunch - Rooms TBA

11:30 am - 1:30 pm	<p>(4) Agriculture and Rangeland</p> <p>Questions to explore: How might agriculture and range management techniques improve soil health and manage water and energy use in light of Idaho's changing climate? How might the agricultural and rangeland industries adapt and collaborate to preserve productive lands, improve soil quality and watershed health, and strengthen the interdependent relationships between communities and government?</p> <p>Topical experts:</p> <ul style="list-style-type: none"> • John Steiner - Wind energy developer and agricultural entrepreneur • Karen Launchbaugh - Director, University of Idaho Rangeland Center • Kelly Olson, Executive Director, Idaho Barley Commission • Rick Naerebout - Chief Executive Officer, Idaho Dairywomen's Association
11:30 am - 1:30 pm	<p>(5) Infrastructure and Built Environment</p> <p>Questions to explore: How might we improve Idaho's built environment to reduce pollution, increase use of renewable energy, and improve quality of life? How might community growth and development, and generation of distributed energy resources be used to adapt to Idaho's changing climate?</p> <p>Topical experts:</p> <ul style="list-style-type: none"> • Kent Hanway - President, CSHQA • Jeremy Jeffers - President Elect, American Institute of Architects, Principal and Founder, Jeremy C Jeffers, Architect, LLC - Idaho • Todd Haynes - Renewable Energy Project Manager, POWER Engineers
1:30 am - 1:50 pm	<p>Break: Short break and return to Jordan Ballroom</p>

Friday Closing: November 17, 1:50-3:00 PM MST - Jordan Ballroom, Student Union Building Boise State University (Livestreamed)

1:50 pm - 2:45 pm	<p>Regroup: Recap and Highlights from Solutions Breakout Session</p> <p>Highlight of solutions that emerged during the facilitated breakout sessions. Each group shares for 7 minutes. Discussion, open forum and general Q & A.</p>
2:45 pm - 3:00pm	<p>Closing Remarks</p> <p>The summit steering committee members will share goals for moving forward with emphasis on knowledge gained from the summit and the forthcoming post-summit report. This will allow time for comments and feedback from the audience as well as an evaluation of the summit.</p>



Safeguarding Idaho's Economy In a Changing Climate

Nov 16 -17
2017

Our Water, Our Land, Our Health, Our Future

Moscow Agenda updated Nov. 15 - Speakers and topics subject to change

Note: Sessions colored gold are livestreamed from Boise State University. Sessions colored blue are hosted live at the University of Idaho. All times PST.

Thursday Morning Opening: November 16, 7:00AM - 7:30AM PST - Idaho Commons 4th Floor

Time (PST)	Description	Presenters
7:00 am	Registration and Check-in	
7:20 am	Moscow Welcome and Opening Remarks	Steven Daley-Laursen - Summit Program Committee, University of Idaho

Thursday Livestreaming: November 16, 7:30AM - 1:30PM PST - Idaho Commons 4th Floor (viewing livestreamed presentations from Jordan Ballroom, Boise State University)

Time (PST)	Description	Presenters
7:30 am- 8:00 am	Welcome Invocation, welcome and overview of the summit	MC: Tom Michael - General Manager, Boise State Public Radio David New - Snake River Chapter, Society of American Foresters Bob Kustra - President, Boise State University Josiah Pinkham - Nez Perce Tribe Cultural Resources and Climate Change Task Force

MOSCOW AGENDA

Thursday Livestreaming, Continued Idaho Commons 4th Floor (viewing livestreamed presentations from Jordan Ballroom, Boise State University)

Time (PST)	Description	Presenters
8:00 am - 8:30 am	<p>Keynote: Safeguarding Idaho's Economy in a Changing Climate</p> <p>Evidence of a changing climate is all around us, from flooding in Houston and Florida to excessive heat and wildfires in the West. These physical climate impacts have real economic costs to Idaho businesses and communities. But there is also economic opportunity to be found in adapting to, and mitigating, these risks. This talk will focus on quantifying the risks to this region, and identifying the real growth and competitiveness opportunities facing this state as the rest of the world moves toward a carbon-constrained economy.</p>	<p>Kate Gordon - Senior Advisor at the Paulson Institute and Founding Executive Director of the Risky Business Project</p> <p>Click here to access slides.</p>
8:30 am-9:15 am	<p>Risks and Impacts: Water, Land, Health, Businesses and Communities</p> <p>Idaho's economy is dependent upon our natural resources, such as forests, fish and wildlife, as well as the vitality of our communities. Various sectors are experiencing impacts and costs associated with a changing climate. This panel will provide an overview of the measured and perceived risks, impacts and costs to Idaho based on data collected by The McClure Center.</p>	<p>Heather Kimmel - Executive Director, American Lung Association in Idaho</p> <p>Bryant Kuechle - Northwest Area Manager, The Langdon Group</p> <p>Click here to access slides and At-A-Glance report.</p>
9:15 am - 9:30 am	Break in Idaho Commons	

Thursday Livestreaming, Continued Idaho Commons 4th Floor (viewing livestreamed presentations from Jordan Ballroom, Boise State University)

9:30 am - 10:30 am	<p>The Effects of Drought and Increased Water Temperatures</p> <p>Panelists will address how they are planning for and adapting to changes in water availability, water quality, and timing/type of precipitation.</p> <p>Click here to access slides.</p>	<p>John Bernardo - Sustainability Strategist, Idaho Power Company</p> <p>Lynn Tominaga - Executive Director, Idaho Ground Water Appropriators</p> <p>Kira Finkler - Idaho Water and Habitat Program Director, Trout Unlimited</p> <p>Steve Burgos - Public Works Director, City of Boise</p> <p>Moderator: Mark Solomon - Associate Director, University of Idaho, Idaho Water Resources Research Institute</p>
10:30 am - 11:30 pm	<p>The True Cost of Wildfire</p> <p>Panelists will discuss how we can manage wildfire and create market opportunities that protect Idaho's economy as we respond to impacts on rangelands, farms, forests, fish, wildlife, recreation, air quality and human health.</p> <p>Click here to access slides.</p>	<p>Vincent Corrao - President, Northwest Management Inc.</p> <p>David Groeschl - State Forester and Deputy Director of Forestry and Fire, Idaho Department of Lands</p> <p>Gretchen Hyde - Director, Idaho Rangeland Resource Commission</p>

MOSCOW AGENDA

		Moderator: David New - Snake River Chapter, Society of American Foresters
Thursday Live-Streaming, Continued Idaho Commons 4th Floor (viewing live-streamed presentations from Jordan Ballroom, Boise State University)		
11:30 pm - 11:35 pm	Pre-Lunch Remarks	Chuck Staben - President, University of Idaho
11:35 pm - 12:15 pm	Lunch: Boxed lunches provided in Idaho Commons - free time to build connections and collaborations	
Thursday Livestreaming, Continued Idaho Commons 4th Floor (viewing livestreamed presentations from Jordan Ballroom, Boise State University)		
12:15 pm - 1:15 pm	Challenges to Human Health and Quality of Life Panelists will discuss Idaho’s changing climate within a cultural framework that acknowledges the responses to changes in tourism, recreation, business recruitment, quality of life, rural and urban economies, health, and common reasons Idahoans choose to live in Idaho. Click here to access slides.	Allison Crimmins - Lead author and coordinator of the U.S. Global Change Research Program’s assessment on climate change and human health; environmental scientist in EPA’s Office of Air and Radiation Climate Change Division Steve Pew - Environmental Health Director at Southeastern Idaho Public Health District Josiah Pinkham - Cultural Resources and Climate Change Task Force, Nez Perce Tribe Moderators: Heather Kimmel - Executive Director, American Lung Association in Idaho Stefanie Krantz - Climate Change Coordinator, Nez Perce Tribe Water Resources Division
1:15 pm - 1:30 pm	Introduction to Moscow Breakout Sessions	Marc Chopin - Dean, College of Business & Economics, University of Idaho Steven Daley-Laursen , Summit Program Committee, University of Idaho
1:30 pm - 1:40 pm	Break: Short break and head to breakout sessions	

Thursday Facilitated Breakout Sessions: 1:40 - 4:00 PM PST

Framing Impacts and Identifying Challenges - Rooms TBA, Idaho Commons, University of Idaho

1:40 pm - 2:15 pm	<p>Five Facilitated Breakout Sessions: Panel Discussion</p> <p>Each of the five break-out session will begin with a panel of local topical experts outlining the major climate-related issues facing their industry and framing the questions for workshops.</p>
2:15 pm - 4:00 pm	<p>(1) Forests and Wildfire - Aurora Room</p> <p>What are the costs and impacts of increased forest/wildfires? What are the challenges and barriers to success?</p> <p>Topical expert:</p> <ul style="list-style-type: none"> ● Mark Corrao - Northwest Management, Inc. and Anchor Forest Collaborative in Eastern Oregon ● Keith Jones - Idaho Department of Parks and Recreation, Coeur d'Alene ID ● JoAnn Mack - NIPF Owner, Priest River, ID
2:15 pm - 4:00 pm	<p>(2) Health and Quality of Life - Crest Room</p> <p>What are the major impacts to health and quality of life, what are the common themes and issues?</p> <p>Topical experts:</p> <ul style="list-style-type: none"> ● Mary Dupree - Citizens' Climate Lobby, Moscow ID ● Ed Marrug - Idaho Department of Health District 2, Lewiston ID ● Jim Kimball - JUB Engineering, Coeur d'Alene ID
2:15 pm - 4:00 pm	<p>(3) Recreation, Fish and Wildlife - Clearwater Room (First Floor)</p> <p>What is at stake in the face of a changing climate in Idaho? What might we lose and who does it affect?</p> <p>Topical experts:</p> <ul style="list-style-type: none"> ● Tony Mangini - Northwest River Supply, Moscow, ID ● Marcie Carter - Nez Perce Tribe, Lapwai, ID ● Loretta Campbell - Hyperspod Inc., Moscow, ID ● Jay Hesse - Nez Perce Tribe Director of Fisheries Research, Lapwai, ID ● Leona Svancara - Idaho Dept. of Fish and Game, Moscow, ID
2:15 pm - 4:00 pm	<p>(4) Agriculture and Rangeland - Horizon Room</p> <p>What are the risks and impacts to our agricultural sector? What are ranchers and farmers observing and how is it affecting their businesses?</p> <p>Topical experts:</p> <ul style="list-style-type: none"> ● Steve Riggers - Farmer, Craigmont, ID ● Robert Blair - Farmer, Kendrick ID ● Jim Miller - CES Primeland, Clarkston, WA ● Greg Freistadt - Deep Roots Farm, Moscow, ID
2:15 pm - 4:00 pm	<p>(5) Infrastructure and Built Environment - Panorama Room</p> <p>What is the role of infrastructure in cities in the changing climate or with respect to reduced pollution and increased quality of life? What are the risks to communities and how can urban infrastructure handle extreme weather?</p> <p>Topical experts:</p> <ul style="list-style-type: none"> ● Mike Lowry - Professor of Transportation, Moscow ID ● Tyler Palmer - Public Works, Moscow, ID ● Jim Kimball - JUB Engineering, Coeur d'Alene ID ● Derek Forseth - Alta Science and Engineering, Moscow ID

MOSCOW AGENDA

Thursday Reception - 4:30 - 6:30 pm - Local Venue TBA

Friday Live-Streaming, November 17: 7:30 - 9:50 AM PST - Idaho Commons 4th Floor (viewing live-streamed presentations from Jordan Ballroom, Boise State University)

Time (PST)	Description	Presenters
7:25 am	Moscow Opening Remarks	Steven Daley-Laursen , Summit Program Committee, University of Idaho
7:30 am - 7:45 am	Welcome Back Overview of day	MC: Tom Michael - Executive Director, Boise State Public Radio Toni Hardesty - Idaho State Director, The Nature Conservancy
7:45 am - 8:45 am	Innovative Solutions by Idaho's Industrial Leaders Challenge and success stories from Idaho's industrial leaders about their response to our changing climate: How to manage energy, water use, transportation, supply chain, and impacts of extreme weather.	Rich Berger - Vice President of Engineering, Food Supply, Clif Bar & Company Erik Gonring - Simplot Plant Sciences Industry Affairs and Sustainability Manager, J.R. Simplot Company David Eichberg - Sustainability and Social Innovation, Global Initiatives Lead, HP Moderator: Julia Grant - Sustainability Program Manager, Micron Technology Inc.
8:45 am - 9:45 am	New Business Opportunities and Solutions for Idaho Panelists will share their experiences developing new business models emphasizing social entrepreneurship and discuss how to support the creation of more economic opportunities in Idaho. Click here to access slides.	Scott Flynn - Founder, Flynnner Homes and Indie Dwell Leif Elgethun - Founder, Retrolux and Idaho Clean Energy Association Lisa Cooper - President, Figure 8 Investment Strategies Amy Rene Lientz - Director, Partnerships, Engagement and Technology Deployment, Idaho National Laboratory Moderator: Aimee Christensen - Founder and Executive Director of Sun Valley Institute and CEO of Christensen Global Strategies
9:50 am - 10:00 am	Head to facilitated breakout sessions	

Friday Facilitated Breakout Sessions: 10:00 am -12:30 pm PST
Brainstorming Solutions
Idaho Commons, University of Idaho

10:00 am - 10:30 am	<p>Five Facilitated Breakout Session: Solutions with Working Lunch Return to breakout groups to develop solutions with 30 minutes of expert panelists opening the discussion with stories of solutions in their sectors.</p>
10:30 am - 12:30 pm	<p>(1) Forests and Wildfire - Aurora Room Possible questions to explore: How might we seize market opportunities while adapting to increased forest/wildfires? How might we manage silvicultural operations to protect the industry for future generations, create new markets for forest residues and fire damaged resources, manage habitat and recreation resources, and increase the number of trees around the state? Topical expert:</p> <ul style="list-style-type: none"> ● Tera King - Northwest Management, Inc., Moscow, ID ● Keith Jones - Idaho Department of Parks and Recreation, Coeur d'Alene, ID ● JoAnn Mack - NIPF Owner, Priest River, ID
10:30 am - 12:30 pm	<p>(2) Health and Quality of Life - Crest Room Possible questions to explore: How might we increase local capacity to address the human health impacts of a changing climate? How might we improve quality of life in light of increased pollutants, changing disease and weather patterns, and fear and uncertainty around a changing climate? Topical experts:</p> <ul style="list-style-type: none"> ● Mary Dupree - Citizens' Climate Lobby, Moscow ID ● Jim Kimball - JUB Engineering, Coeur d'Alene ID
10:30 am - 12:30 pm	<p>(3) Recreation, Fish and Wildlife - Clearwater Room (First Floor) Possible questions to explore: How might Idaho's outdoor recreation, fish, wildlife, and natural resource industries adjust to changes in fire frequency and intensity and changes in snow and water quantity and quality? Topical experts:</p> <ul style="list-style-type: none"> ● Tony Mangini - Northwest River Supply, Moscow, ID ● Marcie Carter - Nez Perce Tribe, Lapwai, ID ● Lauretta Campbell - Hyperspud Inc., Moscow, ID ● Jay Hesse - Nez Perce Tribe Director of Fisheries Research, Lapwai ID ● Leona Svancara - Idaho Dept. of Fish and Game, Moscow, ID
10:30 am - 12:30 pm	<p>(4) Agriculture and Rangeland - Horizon Room Possible questions to explore: How might agriculture and range management techniques improve soil health and manage water and energy use in light of Idaho's changing climate? How might the agricultural and rangeland industries adapt and collaborate to preserve productive lands, improve soil quality and watershed health, and strengthen the interdependent relationships between communities and government? Topical experts:</p> <ul style="list-style-type: none"> ● Steve Riggers - Farmer, Craigmont, ID ● Robert Blair - Farmer, Kendrick ID ● Jim Miller - CES Primeland, Clarkston, WA ● Greg Freistadt - Deep Roots Farms, Moscow, ID

Friday Facilitated Breakout Sessions, Continued: 10:00 am -12:30 pm PST

Brainstorming Solutions

Rooms TBA, Idaho Commons, University of Idaho

<p>10:30 am - 12:30 pm</p>	<p>(5) Infrastructure, Transportation, and Buildings - Panorama Room Possible questions to explore: How might we improve Idaho's built environment to reduce pollution, increase use of renewable energy, and improve quality of life? How might community growth and development, and generation of distributed energy resources be used to adapt to Idaho's changing climate? Topical experts:</p> <ul style="list-style-type: none"> ● Mike Lowry - Professor of Transportation, Moscow ID ● Kyle Steele - Public Works, Moscow ID ● Jim Kimball - JUB Engineering, Coeur d'Alene ID ● Derek Forseth - Alta Science and Engineering, Moscow ID
<p>12:30 pm - 12:50 pm</p>	<p>Return to Idaho Commons 4th Floor Solution Sharing and Working Lunch</p>
<p>12:50 pm - 1:30 pm</p>	<p>Regroup: Recap and Highlights from Solutions Breakout Session Highlight of solutions that emerged during the facilitated breakout sessions. Each group shares for 7 minutes. Discussion, open forum and general Q & A.</p>
<p>1:30 pm – 2:00 pm</p>	<p>Closing Remarks The summit steering committee members will share goals for moving forward with emphasis on knowledge gained from the summit and the forthcoming post-summit report. This will allow time for comments and feedback from the audience as well as an evaluation of the summit.</p>

POCATELLO AGENDA



Safeguarding Idaho's Economy In a Changing Climate

Nov 16 -17
2017

Our Water, Our Land, Our Health, Our Future

Pocatello Agenda updated Nov. 13 - Speakers and topics subject to change

Note: Sessions colored gold are watched via live-streaming from Boise State University. Sessions colored blue are live at Idaho State University.

Thursday Morning Opening: November 16, 8:15AM - 8:30AM PST - Pond Student Union, Wood River Rooms

Time	Description	Presenters
8:15 am - 8:30 am	Welcome and Overview from Idaho State University	Cornelis J. (Neels) Van der Schyf, B.Pharm., D.Sc., DTE - Vice President for Research and Dean of the Graduate School, Professor of Biomedical and Pharmaceutical Sciences, Idaho State University Golden Baxter, Ph.D. - Professor, Department of Biological Sciences, Idaho State University; Summit Steering Committee member.

Thursday Livestreaming: November 16, 8:30AM - 2:30PM MST - Pond Student Union, Wood River Rooms (watching livestreamed presentations from Jordan Ballroom, Boise State University)

Time	Description	Presenters
8:30 am- 9:00 am	Welcome Invocation, welcome and overview of the summit	MC: Tom Michael - General Manager, Boise State Public Radio David New - Snake River Chapter, Society of American Foresters Bob Kustra - President, Boise State University Josiah Pinkham - Nez Perce Tribe Cultural Resources and Climate Change Task Force

POCATELLO AGENDA

Thursday Livestreaming, Continued: November 16, 8:30AM - 2:30PM MST - Pond Student Union, Wood River Rooms (watching livestreamed presentations from Jordan Ballroom, Boise State University)

Time	Description	Presenters
9:00 am - 9:30 am	<p>Keynote: Safeguarding Idaho's Economy in a Changing Climate</p> <p>Evidence of a changing climate is all around us, from flooding in Houston and Florida to excessive heat and wildfires in the West. These physical climate impacts have real economic costs to Idaho businesses and communities. But there is also economic opportunity to be found in adapting to, and mitigating, these risks. This talk will focus on quantifying the risks to this region, and identifying the real growth and competitiveness opportunities facing this state as the rest of the world moves toward a carbon-constrained economy.</p>	<p>Kate Gordon - Senior Advisor at the Paulson Institute and Founding Executive Director of the Risky Business Project</p> <p>Click here to access slides.</p>
9:30 am- 10:15 am	<p>Risks and Impacts: Water, Land, Health, Businesses and Communities</p> <p>Idaho's economy is dependent upon our natural resources, such as forests, fish and wildlife, as well as the vitality of our communities. Various sectors are experiencing impacts and costs associated with a changing climate. This panel will provide an overview of the measured and perceived risks, impacts and costs to Idaho based on data collected by The McClure Center.</p>	<p>Heather Kimmel - Executive Director, American Lung Association in Idaho</p> <p>Bryant Kuechle - Northwest Area Manager, The Langdon Group</p> <p>Click here to access slides and At-A-Glance report.</p>
10:15 am - 10:30 am	Break	

Thursday Livestreaming, Continued: November 16, 8:30AM - 2:30PM MST - Pond Student Union, Wood River Rooms (watching livestreamed presentations from Jordan Ballroom, Boise State University)

Time	Description	Presenters
10:30 am - 11:30 am	<p>The Effects of Drought and Increased Water Temperatures</p> <p>Panelists will address how they are planning for and adapting to changes in water availability, water quality, and timing/type of precipitation.</p>	<p>John Bernardo - Sustainability Strategist, Idaho Power Company</p> <p>Lynn Tominaga - Executive Director, Idaho Ground Water Appropriators</p> <p>Kira Finkler - Idaho Water and Habitat Program Director, Trout Unlimited</p> <p>Steve Burgos - Public Works Director, City of Boise</p> <p>Moderator: Mark Solomon - Associate Director, University of Idaho, Idaho Water Resources Research Institute</p> <p>Click here to access slides.</p>

POCATELLO AGENDA

Thursday Live-Streaming, Continued: November 16, 8:30AM - 2:30PM MST - Pond Student Union, Wood River Rooms
(watching live-streamed presentations from Jordan Ballroom, Boise State University)

Time	Description	Presenters
11:30 am - 12:30 pm	<p>The True Cost of Wildfire Panelists will discuss how we can manage wildfire and create market opportunities that protect Idaho's economy as we respond to impacts on rangelands, farms, forests, fish, wildlife, recreation, air quality and human health.</p>	<p>Vincent Corrao - President, Northwest Management Inc. David Groeschl - State Forester and Deputy Director of Forestry and Fire, Idaho Department of Lands Gretchen Hyde - Director, Idaho Rangeland Resource Commission Moderator: David New - Snake River Chapter, Society of American Foresters</p> <p>Click here to access slides.</p>
12:30 pm - 12:35 pm	Pre-Lunch Remarks	Chuck Staben - President, University of Idaho
12:35 pm - 1:15 pm	Lunch: Free time to build connections and collaborations - Pond Student Union, Wood River Rooms	

Thursday Livestreaming, Continued: November 16, 8:30AM - 2:30PM MST - Pond Student Union, Wood River Rooms
(watching livestreamed presentations from Jordan Ballroom, Boise State University)

Time	Description	Presenters
1:15 pm - 2:15 pm	<p>Challenges to Human Health and Quality of Life Panelists will discuss Idaho's changing climate within a cultural framework that acknowledges the responses to changes in tourism, recreation, business recruitment, quality of life, rural and urban economies, health, and common reasons Idahoans choose to live in Idaho.</p> <p>Click here to access slides.</p>	<p>Allison Crimmins - Lead author and coordinator of the U.S. Global Change Research Program's assessment on climate change and human health; environmental scientist in EPA's Office of Air and Radiation Climate Change Division Steve Pew - Environmental Health Director at Southeastern Idaho Public Health District Josiah Pinkham - Cultural Resources and Climate Change Task Force, Nez Perce Tribe Moderators: Heather Kimmel - Executive Director, American Lung Association in Idaho Stefanie Krantz - Climate Change Coordinator, Nez Perce Tribe Water Resources Division</p>
2:15 pm - 2:30 pm	<p>Introduction to Breakout Sessions Participants will gain insights on the Summit's model for facilitated problem solving and how to most effectively participate in the afternoon's workshops. Participants are encouraged but not required to attend the same workshop both days.</p>	Amber Bieg - Partner, Warm Springs Consulting

2:30 pm - 2:40 pm Break: Short break and head to breakout sessions

Thursday Facilitated Breakout Sessions: 2:40 - 5:00 PM MST, Pond Student Union, Wood River Rooms Framing Impacts and Identifying Challenges

2:40 pm - 3:15 pm	<p>Three Facilitated Breakout Sessions: Panel Discussion Each of the three break-out sessions will begin with a panel of local topical experts outlining the major climate-related issues facing their industry and framing the questions for workshops.</p>
3:15 pm - 5:00 pm	<p>(1) Forests, Recreation, Fish and Wildlife What is at stake in the face of a changing climate in Idaho? What might we lose and who does it affect? What are the challenges and barriers to success? Topical experts:</p> <ul style="list-style-type: none"> ● Rob Van Kirk - Senior Scientist, Henry's Fork Foundation ● Anna Owsiak - Regional Habitat Manager, Idaho Department of Fish and Game ● Rose Lehman - Forest Botanist, Caribou-Targhee National Forest
3:15 pm - 5:00 pm	<p>(2) Health, Quality of Life, and Infrastructure What are the major impacts to health and quality of life, what are the common themes and issues? What is the role of infrastructure in cities in the changing climate or with respect to reduced pollution and increased quality of life? What are the risks to communities and how can urban infrastructure handle extreme weather? Topical experts:</p> <ul style="list-style-type: none"> ● Darin Letzring - Program Manager, Public Health Preparedness, Southeastern Idaho Public Health ● Hannah Sanger - Manager, City of Pocatello Science and Environmental Division ● Jack Greene - Field Scientist and Educator, Utah State University and Colorado State University
3:15 pm - 5:00 pm	<p>(3) Agriculture and Rangeland What are the risks and impacts to our agricultural sector? What are ranchers and farmers observing and how is it affecting their businesses? Topical experts:</p> <ul style="list-style-type: none"> ● Sarah Godsey - Department of Geosciences, Idaho State University ● Randy Smith - Water Master, Water District 29D: Lower Portneuf River & Tributaries ● Roger Chase - Chair Idaho Water Board, Former Pocatello Mayor

Thursday Evening: Post-Event No Host Social at Goody's, 905 S. 5th Ave., Pocatello

POCATELLO AGENDA

Friday Livestreaming, November 17: 8:30 - 10:50 AM MST - Pond Student Union, Wood River Rooms (watching livestreamed presentations from Jordan Ballroom - Boise State University)

Time	Description	Presenters
8:30 am - 8:45 am	Welcome Back Overview of day	MC: Tom Michael - Executive Director, Boise State Public Radio Toni Hardesty - Idaho State Director, The Nature Conservancy
8:45 am - 9:45 am	Innovative Solutions by Idaho's Industrial Leaders Challenge and success stories from Idaho's industrial leaders about their response to our changing climate: How to manage energy, water use, transportation, supply chain, and impacts of extreme weather.	Rich Berger - Vice President of Engineering, Food Supply, Clif Bar & Company Erik Gonring - Simplot Plant Sciences Industry Affairs and Sustainability Manager, J.R. Simplot Company David Eichberg - Sustainability and Social Innovation, Global Initiatives Lead, HP, Inc. Moderator: Julia Grant - Sustainability Program Manager, Micron Technology Inc.
9:45 am - 10:45 am	New Business Opportunities and Solutions for Idaho Panelists will share their experiences developing new business models emphasizing social entrepreneurship and discuss how to support the creation of more economic opportunities in Idaho.	Scott Flynn - Founder, Flynnner Homes and Indie Dwell Leif Elgethun - Founder, Retrolux and Idaho Clean Energy Association Lisa Cooper - President, Figure 8 Investment Strategies Amy Rene Lientz - Director, Partnerships, Engagement and Technology Deployment, Idaho National Laboratory Moderator: Aimee Christensen - Founder and Executive Director of Sun Valley Institute and CEO of Christensen Global Strategies Click here to access slides.
10:45 am - 10:50 am	Quick Refresher on Breakout Sessions Participants will gain insights on the Summit's model for facilitated problem solving and how to most effectively participate in the afternoon's workshops. Participants are encouraged but not required to attend the same workshop both days.	Amber Bieg - Partner, Warm Springs Consulting
10:50 am - 11:00 am	Grab lunch and get ready to begin facilitated breakout sessions	

Friday Facilitated Breakout Sessions: 11:00 am -1:30 pm MST, Pond Student Union, Wood River Rooms Brainstorming Solutions with Working Lunch - boxed lunches provided

11:00 am - 11:30 am	<p>Three Facilitated Breakout Session: Solutions with Working Lunch Return to breakout groups to develop solutions with 30 minutes of expert panelists opening the discussion with stories of solutions in their sectors.</p>
11:30 am - 1:30 pm	<p>(1) Forests, Recreation, Fish and Wildlife Questions to explore: How might we seize market opportunities while adapting to increased forest/wildfires? How might we manage silvicultural operations to protect the industry for future generations, create new markets for forest residues and fire damaged resources, manage habitat and recreation resources, and increase the number of trees around the state? How might Idaho's outdoor recreation, fish, wildlife, and natural resource industries adjust to changes in fire frequency and intensity and changes in snow and water quantity and quality? Topical Experts:</p> <ul style="list-style-type: none"> ● Rob Van Kirk - Senior Scientist, Henry's Fork Foundation ● Anna Owsiak - Idaho Department of Fish and Game ● Rose Lehman - Forest Botanist, Caribou-Targhee National Forest
11:30 am - 1:30 pm	<p>(2) Health, Quality of Life, and Infrastructure Questions to explore: How might we increase local capacity to address the human health impacts of a changing climate? How might we improve quality of life in light of increased pollutants, changing disease and weather patterns, and fear and uncertainty around a changing climate? How might we improve Idaho's built environment to reduce pollution, increase use of renewable energy, and improve quality of life? How might community growth and development, and generation of distributed energy resources be used to adapt to Idaho's changing climate? Topical Experts:</p> <ul style="list-style-type: none"> ● Darin Letzring - Program Manager, Public Health Preparedness, Southeastern Idaho Public Health ● Hannah Sanger - Manager, City of Pocatello Science and Environmental Division ● Jack Greene - Field Scientist and Educator, Utah State University and Colorado State University
11:30 am - 1:30 pm	<p>(3) Agriculture and Rangeland Questions to explore: How might agriculture and range management techniques improve soil health and manage water and energy use in light of Idaho's changing climate? How might the agricultural and rangeland industries adapt and collaborate to preserve productive lands, improve soil quality and watershed health, and strengthen the interdependent relationships between communities and government? Topical experts:</p> <ul style="list-style-type: none"> ● Sarah Godsey- Department of Geosciences, Idaho State University ● Randy Smith - Water Master, Water District 29D: Lower Portneuf River & Tributaries ● Roger Chase - Chair, Idaho Water Board, Former Pocatello Mayor
1:30 pm - 1:50 pm	<p>Short break</p>

POCATELLO AGENDA

Friday Livestreamed Closing: November 17, 1:50-3:00 PM MST - Pond Student Union, Wood River Rooms (watching livestreamed presentations from Jordan Ballroom, Boise State University)

1:50 pm - 2:45 pm	Regroup: Recap and Highlights from Solutions Breakout Session Highlight of solutions that emerged during the facilitated breakout sessions. Each group shares for 7 minutes. Discussion, open forum and general Q & A.
2:45 pm - 3:00pm	Closing Remarks The summit steering committee members will share goals for moving forward with emphasis on knowledge gained from the summit and the forthcoming post-summit report. This will allow time for comments and feedback from the audience as well as an evaluation of the summit.

Friday at 3:30pm: Post-Summit showing of “An Inconvenient Sequel” at the ISU Bengal Theatre - free and open to the public!



Safeguarding Idaho's Economy In a Changing Climate

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2017

Our Water, Our Land, Our Health, Our Future

Henry's Fork Watershed Council in Ashton - Agenda updated Nov. 13 - Speakers and topics subject to change

Note: Sessions colored gold are livestreamed from Boise State University. Sessions colored blue are hosted live at the the Henry's Fork Foundation Office. Registration and check in begins at 8.

Thursday Morning Opening: November 16, 8:15 AM -8:30AM MST - Henry's Fork Foundation Office

Time (PST)	Description	Presenters
8:15 am-8:30 am	Introductions and Community Building	Watershed Council

Thursday Livestreaming: November 16, 8:30AM - 2:40PM MST - Henry's Fork Foundation Office (watching livestreamed presentations from Boise State University)

Time	Description	Presenters
8:30 am-9:00 am	Welcome Invocation, welcome and overview of the summit	MC: Tom Michael - General Manager, Boise State Public Radio David New - Snake River Chapter, Society of American Foresters Bob Kustra - President, Boise State University Josiah Pinkham - Nez Perce Tribe Cultural Resources and Climate Change Task Force

ASHTON AGENDA

Thursday Livestreaming, continued: November 16, 8:30AM - 2:40PM MST - Henry's Fork Foundation Office (watching livestreamed presentations from Boise State University)

Time	Description	Presenters
9:00 am - 9:30 am	<p>Keynote: Safeguarding Idaho's Economy in a Changing Climate</p> <p>Evidence of a changing climate is all around us, from flooding in Houston and Florida to excessive heat and wildfires in the West. These physical climate impacts have real economic costs to Idaho businesses and communities. But there is also economic opportunity to be found in adapting to, and mitigating, these risks. This talk will focus on quantifying the risks to this region, and identifying the real growth and competitiveness opportunities facing this state as the rest of the world moves toward a carbon-constrained economy.</p>	<p>Kate Gordon - Senior Advisor at the Paulson Institute and Founding Executive Director of the Risky Business Project</p> <p>Click here to access slides.</p>
9:30 am- 10:15 am	<p>Risks and Impacts: Water, Land, Health, Businesses and Communities</p> <p>Idaho's economy is dependent upon our natural resources, such as forests, fish and wildlife, as well as the vitality of our communities. Various sectors are experiencing impacts and costs associated with a changing climate. This panel will provide an overview of the measured and perceived risks, impacts and costs to Idaho based on data collected by the McClure Center.</p>	<p>Heather Kimmel - Executive Director, American Lung Association in Idaho Bryant Kuechle - Northwest Area Manager, The Langdon Group</p> <p>Click here to access slides and At-A-Glance report.</p>

10:15 am -10:30 am Break - Henry's Fork Foundation Office

Thursday Livestreaming, Continued: November 16, 8:30AM - 2:40PM MST - Henry's Fork Foundation Office (watching livestreamed presentations from Boise State University)

Time	Description	Presenters
10:30 am - 11:30 am	<p>The Effects of Drought and Increased Water Temperatures</p> <p>Panelists will address how they are planning for and adapting to changes in water availability, water quality, and timing/type of precipitation.</p> <p>Click here to access slides.</p>	<p>John Bernardo - Sustainability Strategist, Idaho Power Company Lynn Tominaga - Executive Director, Idaho Ground Water Appropriators Kira Finkler - Idaho Water and Habitat Program Director, Trout Unlimited Steve Burgos - Public Works Director, City of Boise Moderator: Mark Solomon - Associate Director, University of Idaho, Idaho Water Resources Research Institute</p>

ASHTON AGENDA

Thursday Livestreaming, Continued: November 16, 8:30AM - 2:40PM MST - Henry's Fork Foundation Office (watching livestreamed presentations from Boise State University)

Time	Description	Presenters
11:30 am - 12:30 pm	<p>The True Cost of Wildfire Panelists will discuss how we can manage wildfire and create market opportunities that protect Idaho's economy as we respond to impacts on rangelands, farms, forests, fish, wildlife, recreation, air quality and human health.</p>	<p>Vincent Corrao - President, Northwest Management Inc. David Groeschl - State Forester and Deputy Director of Forestry and Fire, Idaho Department of Lands Gretchen Hyde - Director, Idaho Rangeland Resource Commission Moderator: David New - Snake River Chapter, Society of American Foresters</p> <p>Click here to access slides.</p>
12:30 pm - 12:35 pm	Pre-Lunch Remarks	Chuck Staben - President, University of Idaho
12:35 pm - 1:15 pm	Lunch: Free time to build connections and collaborations	

Thursday Livestreaming, Continued: November 16, 8:30AM - 2:40PM MST - Henry's Fork Foundation Office (watching livestreamed presentations from Boise State University)

Time	Description	Presenters
1:15 pm - 2:15 pm	<p>Challenges to Human Health and Quality of Life Panelists will discuss Idaho's changing climate within a cultural framework that acknowledges the responses to changes in tourism, recreation, business recruitment, quality of life, rural and urban economies, health, and common reasons Idahoans choose to live in Idaho.</p> <p>Click here to access slides.</p>	<p>Allison Crimmins - Lead author and coordinator of the U.S. Global Change Research Program's assessment on climate change and human health; environmental scientist in EPA's Office of Air and Radiation Climate Change Division Steve Pew - Environmental Health Director at Southeastern Idaho Public Health District Josiah Pinkham - Cultural Resources and Climate Change Task Force, Nez Perce Tribe Moderators: Heather Kimmel - Executive Director, American Lung Association in Idaho Stefanie Krantz - Climate Change Coordinator, Nez Perce Tribe Water Resources Division</p>
2:15 pm - 2:30 pm	<p>Introduction to Breakout Sessions Participants will gain insights on the Summit's model for facilitated problem solving and how to most effectively participate in the afternoon's workshops. Participants are encouraged but not required to attend the same workshop both days.</p>	Amber Bieg - Partner, Warm Springs Consulting

2:30 pm - Break & Snacks: Short break and head to breakout sessions
2:40 pm

Thursday Facilitated Breakout Sessions: 2:40 - 5:00 PM MST - Henry's Fork Foundation Office (rooms TBA) Framing Impacts and Identifying Challenges

2:40 pm - 3:15 pm	Five Facilitated Breakout Sessions: Panel Discussion Each of the five break-out session will begin with a panel of local topical experts outlining the major climate-related issues facing their industry and framing the questions for workshops.
3:15 pm - 5:00 pm	(1) Forests and Wildfire What are the costs and impacts of increased forest/wildfires? What are the challenges and barriers to success?
3:15 pm - 5:00 pm	(2) Health and Quality of Life What are the major impacts to health and quality of life, what are the common themes and issues?
3:15 pm - 5:00 pm	(3) Recreation, Fish and Wildlife What is at stake in the face of a changing climate in Idaho? What might we lose and who does it affect?
3:15 pm - 5:00 pm	(4) Agriculture and Rangeland What are the risks and impacts to our agricultural sector? What are ranchers and farmers observing and how is it affecting their businesses?
3:15 pm - 5:00 pm	(5) Infrastructure and Built Environment What is the role of infrastructure in cities in the changing climate or with respect to reduced pollution and increased quality of life? What are the risks to communities and how can urban infrastructure handle extreme weather?

ASHTON AGENDA

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10:50 am - 11:00 am	Grab lunch and head to facilitated breakout sessions	

Friday Facilitated Breakout Sessions: 11:00 am -1:30 pm MST - Henry's Fork Foundation Office (rooms TBA) Brainstorming Solutions with Working Lunch

11:00 am - 11:30 am	Five Facilitated Breakout Session: Solutions with Working Lunch Return to breakout groups to develop solutions with 30 minutes of topical expert panelists opening the discussion with stories of solutions in their sectors.
11:30 am - 1:30 pm	(1) Forests and Wildfire Questions to explore: How might we seize market opportunities while adapting to increased forest/wildfires? How might we manage silvicultural operations to protect the industry for future generations, create new markets for forest residues and fire damaged resources, manage habitat and recreation resources, and increase the number of trees around the state?
11:30 am - 1:30 pm	(2) Health and Quality of Life Questions to explore: How might we increase local capacity to address the human health impacts of a changing climate? How might we improve quality of life in light of increased pollutants, changing disease and weather patterns, and fear and uncertainty around a changing climate?
11:30 am - 1:30 pm	(3) Recreation, Fish and Wildlife Questions to explore: How might Idaho's outdoor recreation, fish, wildlife, and natural resource industries adjust to changes in fire frequency and intensity and changes in snow and water quantity and quality?
11:30 am - 1:30 pm	(4) Agriculture and Rangeland Questions to explore: How might agriculture and range management techniques improve soil health and manage water and energy use in light of Idaho's changing climate? How might the agricultural and rangeland industries adapt and collaborate to preserve productive lands, improve soil quality and watershed health, and strengthen the interdependent relationships between communities and government?
11:30 am - 1:30 pm	(5) Infrastructure and Built Environment Questions to explore: How might we improve Idaho's built environment to reduce pollution, increase use of renewable energy, and improve quality of life? How might community growth and development, and generation of distributed energy resources be used to adapt to Idaho's changing climate?
1:30 am - 1:50 pm	Break and return to main room

Friday Closing, Livestreamed: November 17, 1:50-3:00 PM MST - Henry's Fork Foundation Office (watching livestreamed presentations from Boise State University)

1:50 pm - 2:45 pm	Regroup: Recap and Highlights from Solutions Breakout Session Highlight of solutions that emerged during the facilitated breakout sessions. Each group shares for 7 minutes. Discussion, open forum and general Q & A.
2:45 pm - 3:00pm	Closing Remarks The summit steering committee members will share goals for moving forward with emphasis on knowledge gained from the summit and the forthcoming post-summit report. This will allow time for comments and feedback from the audience as well as an evaluation of the summit.



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Appendix 2: Summit Solutions

After the plenary discussions on both days, participants broke out into topically-focused breakout groups:

-  1) Forests and Wildfire
-  2) Health and Quality of Life
-  3) Recreation Fish and Wildlife
-  4) Agriculture and Rangeland
-  5) Infrastructure and Built Environment

Topics varied depending on the needs of each location. For example, Pocatello combined some of the topics and reduced the breakout topics to three, accommodating both the focus of the region and the number of attendees. Each topic group contained 5 to 8 small groups of 8 to 12 participants, led by a professional facilitator. All facilitators were trained to follow a series of exercises designed to: (1) engage the participants in identifying opportunity areas, solutions, and barriers; and (2) how to implement the identified solutions. Agenda of Speakers and Session Descriptions for each Summit venue.

Breakout Session Conversation Highlights

The break-out conversations began with topical experts giving a 30 minute presentation discussing the issues in-depth. The conversations then opened for participant involvement within smaller groups. In the small groups, participants shared one-two minute personal stories describing their experiences or reflecting on what they heard in the plenary sessions. Volunteer note-takers assigned to each small group captured the highlights and quotes from the discussion, some of which are shared below.

The conversations involved discussions about how the changing climate is already affecting Idahoans connecting climate to health impacts. Insights included:

- “We are already seeing a shift in how we act and need to make smart decisions based on climate resiliency.”
- “Fire affects all of us as it relates to health – both young and old, we all breathe the air and smoke impacts everyone.”
- “There is a consequence for everything.”

Participants discussed policy issues, including:

- “Idaho is missing out on opportunities to tap into our renewable energy resources. There is a lot happening in our neighboring states with regards to renewable energy, but Idaho policy is not friendly to renewables.”
- “The natural resource sector, professionals and associations are largely lost in never ending discussions and struggling to take responsibility. Quagmired by decades of litigation and over-worked collaboratives Federal agency leaders now simply offer up the need for public acceptance of the opinions of ‘new normal’ in regards to the scale and intensity of wildfires. This attitude is becoming a larger challenge than the changing climate.”

A number of participants brought up plenary presenter Josiah Pinkham’s earlier reminder that “What we do now will impact well beyond what we can fathom.” The notion of connectivity of each other’s actions on the environment was center and forefront at almost every group conversation. The topic of water and the idea of One Water was seen as an important way for people to see the connection between action and consequences. “We waste a lot of water in Idaho ... we as a society have values that need to change.”

One of the core problems discussed is the disconnect between impacts of climate change and the personal responsibility for those impacts. “Most people aren’t connecting the dots.” Moreover, it was discussed that terms such as energy efficiency are not necessarily understood by the layperson. “We need better storytelling to convey impacts of climate change and to make the abstract more concrete and personal. Human stories are moving and motivational.” “Education and communication inspires action and connection.”

The notes taken at the Summit by volunteers, representing the conversations that took place, are visualized in the word cloud below, with the size of the word representing frequency in which it occurred:



Image 1: Word cloud generated from Summit notes

Opportunity Areas

During the breakout sessions, once participants shared their story or observations from the day, breakout groups identified challenge or problem areas that emerged from the conversation. The groups then turned the challenge areas into opportunities by using “How Might We . . .?” as a guiding question. The groups also identified barriers to those opportunities. The “How Might We” statements identified in the small groups naturally fit into five general opportunity areas, regardless of the breakout session topic:

- 1) Collaborate
- 2) Change Mindsets and Communication
- 3) Use Metrics and Economics
- 4) Think in Systems
- 5) Focus on Local

The next section is an edited list of the “How Might We” statements, grouped by opportunity area.

Opportunity Area 1: Collaborate

How Might We:

- Acknowledge common reality among sectors & address in a holistic way
- Identify common ground and interconnectedness
- Continue this conversation (Safeguarding Idaho's Economy in a Changing Climate)
- Have more generative conversations
- Create safe spaces for open dialogue
- Use existing projects in educating the public; there are a lot of positive things happening that need to be shared/publicized
- Bring interdisciplinary perspectives and bridge silos of different disciplines
- Build stakeholder groups that can identify and act upon opportunities and solutions that climate change will create
- Approach conversations from a place of common values and empathy
- Keep people providing solutions/being engaged
- Engage all professionals to take on an obligation to educate peers, neighbors, clients and co-workers
- Create more demand for renewable projects in Idaho
- Advocate for preventative policies regarding air quality
- Incentivise politicians to plan for the distant future
- Incorporate unique perspectives at different scales
- Deepen communication
- Close the gap between research and the public
- Collaborate to make change
- Tap into common purpose/connectivity to motivate planning & preparedness
- Have broader community disaster scenario preparedness conversations
- Develop partnerships across disciplines and businesses

Opportunity Area 2: Change Mindsets and Communication

How Might We:

- Connect people to the land
- Educate others to recognize the divine connection between nature and community and incorporate decisions in a (w)holistic way
- Reconnect people and foster personal connections with nature, the land and the water
- Incorporate environmental and spiritual values into solutions
- Change current business, personal, and government agency practices that look to the past and are slow moving to encourage efficient solutions that are proactive for the future
- Stop trying to separate humans from the environment
- Popularize indigenous attitudes, ethos, and approaches
- Phrase the message in a way people can understand, talk differently
- Use emotional intelligence when interacting with various stakeholders
- Take personal responsibility for climate change
- Meet people where they are
- Change perceptions about private property rights
- Help people understand that water is a finite resource

- Help people understand where their grain comes from
- Stay the course for the long-haul
- Teach others about indigenous beliefs relating to respecting Mother Earth
- Convey the personal aspects of a changing climate to better engage citizens
- Empower and educate our youth to create change
- Develop narrative and strategy to include youth and young adults
- Provide tools, information, education to help ag producers better manage for climate change
- Educate others so that they don't feel so overwhelmed by climate change
- Educate communities regarding preparing for extreme climate events
- Make climate change personal
- Have communication and education include personal stories and experiences
- Think of health as the human face of climate changes
- Employ 'Quality of Life' as a way to make issues real for people
- Be mindful of social justice issues
- Ensure newcomers (including future generations) who come from more developed places with lower standards for habitat integrity don't make those lower standards the new norm
- Create greater understanding that the economic system/business/busyness/economic uncertainty/pov-erty stresses people, which leads to poorer mental and physical health outcomes, as well as less care for the environment - the negative effects of which reverberate throughout the entire system and from one generation to the next
- Create more of a vision/forward thinking/empowered culture having citizens ask, "what world do we want to live in and how do we create the world we want to live in?" instead of "how do we stop all these bad things from happening?"

Opportunity Area 3: Use Metrics and Economics

How Might We:

- Incorporate environment into our cost-benefit analyses
- Sell renewable energy to states that want it
- Utilize multiplier effect as a basis for further support for needed action
- Put economic value or more complete value on fish/wildlife
- Communicate economic implications of negligent policies
- Create better access to public health data, get Idaho to collect and disseminate it; and if the government is not collecting health data, have businesses compile information about employee sick leave and health issues
- Engage citizen science
- Apply what we know without extensive need for more research
- Increase use of what's already there; the frameworks already exist, we don't have to create them
- Improve data collection and sharing to inform Best Management Practices
- Generate data or information that shows Idaho policy makers the economic opportunities of renewables
- Drive public leaders to help us create taxes, insurance, incentives, disincentives
- Get producers and consumers much closer together than they currently are, which equals more money for producer as incentive
- Incentivize sequestration
- Set a bar for economical and climate-friendly outcomes that are measurable
- Monetize investment on proactive mitigation efforts
- Talk in terms of cost/benefit analysis or financial benefit to the practitioner

- Understand how the impact we have today benefits tomorrow
- Economize the long-term sustainable solutions
- Account for externalities: Carbon footprint and ecological footprint, fair accounting
- Encourage more risk management
- Incorporate risk management in to government, insurance policies, biophysical factors and cropping systems for agriculture
- Focus on Idaho's economy as a platform from which to discuss climate change
- Use cost savings to address drivers of climate change
- Apply incentives
- Create metrics that matter
- Create business policy related to climate change issues
- Get broader representation from the business community
- Encourage smart growth
- Look at government and insurance policies
- Utilize the economic impact and opportunities that are available
- Develop markets and infrastructure for alternative crops to help agricultural producers adapt to climate change
- Monetize environmental conditions via ecosystem services and portfolio development at the state level

Opportunity Area 4: Think in Systems

How Might We:

- Educate the public that the built environment is a big money world but is underfunded, especially in public works
- Plan for climate-related impacts on roads, water systems and supply, bridges, construction
- Include natural systems that are integral, streams, rivers, wetlands
- Maintain infrastructure for long-haul
- Encourage smart growth and development
- Educate the public that urban forests important for interpretation, managing stormwater, other solutions etc.
- Encourage Wildland-Urban Interface fire solutions, defensible space
- Encourage County or comprehensive planning and broaden the planning horizon
- Encourage design safe respiratory places
- Create a watershed view
- Review and update local design standards, e.g. more hot days stresses bridges, asphalt, concrete
- Design for long-term, infrequent storm events; what worked in the past or now might not in the future
- Prevent negative health impacts from air pollution
- Build the infrastructure to remain adaptable
- Develop ecological solutions that look at the whole system as opposed to bandaid-ing the problem
- Flip the model from reactive to proactive healthcare
- Develop comprehensive landscape solutions for fish, recreation, wildlife and other water users like irrigators
- Encourage better farm policy to provide incentives for water quality
- Encourage no till, low input, variable rate nitrogen seeding applications, etc.
- Incorporate the One-Water approach into a holistic way to conserve and utilize water for current and future generations

- Expand the notion of One Water and capture the idea of reusing our waste
- Recharge aquifers to ensure reliable water quality and quantity for ag and cities
- Incorporate rotational cropping systems
- Decrease Idaho's agricultural water consumption while still producing food sustainably
- Deal with septic system impacts on aquifer
- Increase the amount of regenerative agriculture practiced by farmers and ranchers to increase carbon sequestration in the soil
- Manage forests to proactively reduce catastrophic wildfire risk
- Effectively engage a balance between forest, community, and economic stability
- Keep forests healthy and working
- Advocate fire prevention by increasing education, wise land use planning, encouraging defensible space and appropriate development and technology

Opportunity Area 5: Focus on Local

How Might We:

- Encourage that local political participation is important to drive federal policies
- Apply ideas locally that have worked in other places
- Start at the local scale and end at the larger scale
- Create further understanding that climate change is either encouraging people to lose their connection to the local landscape due to increased extreme weather, air quality, etc. or it is encouraging people to renew their connection to the landscape
- Encourage that local is more sustainable
- Encourage that diversity need diverse solutions; local solutions are out there
- Create connection to place to preserve adaptability
- Help rural Idaho adapt and thrive
- Keep the focus on Idaho resilience
- Increase education and dialogue at local level
- Work with volunteers, get people involved physically at local level
- Take the message to the people locally, grassroots effort

Solutions

After the groups brainstormed opportunity areas, they broke into sub-groups of two to four and selected one solution to flesh out further. The sub-groups looked back to previously identified barriers and explored how to make each solution real. After further development the sub-groups shared the fleshed-out solutions with their breakout group and then collectively chose the most implementable and inspiring ones to share with the rest of the Summit participants. Below includes a list and summary of the solutions generated.

Opportunity Area 1: Collaborate

Solution 1.1: Community-owned Processing Facility for Cover Crops

- Need facility to process fava beans, garbanzos and other cover crops
- Create branded product
- National level demand already exists
- Brands like Happy Family could use this product

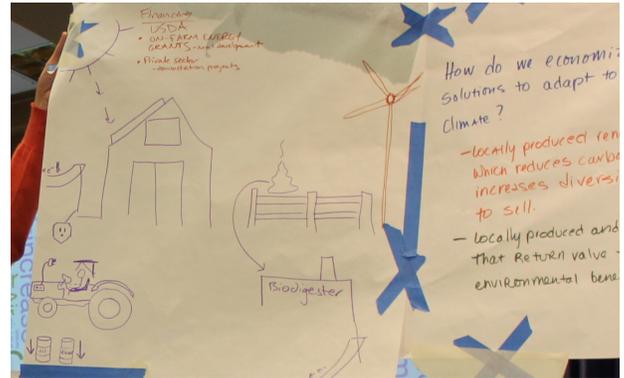


Image 2: Community-owned processing facility for cover crops



Agriculture and Rangeland Breakout Group

Solution 1.2: Increase Cover Crops and No Till Perennial Vegetation and Holistic Grazing on Farms and Rangeland

- Develop partnerships among agricultural producers, scientists, NGOs, and private industry
- Create cost-sharing opportunities, experimental ag/range project, and ag/natural resource classes in K-12
- Results in reduced costs for healthier soil, people, and environment - along with reduced carbon

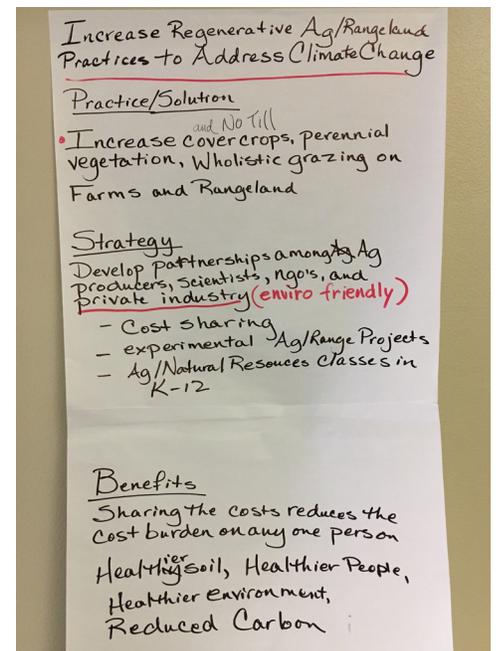


Image 3: Pocatello Agriculture Solution



Agriculture and Rangeland Breakout Group

Solution 1.3: Develop Markets for Alternative Crops

- Develop infrastructure that can handle multiple grains like wheat, barley and flax, near the farmer.
- Create funding sources through loans, investors, entrepreneurs, and grants (USDA, Dept of Commerce, etc.)

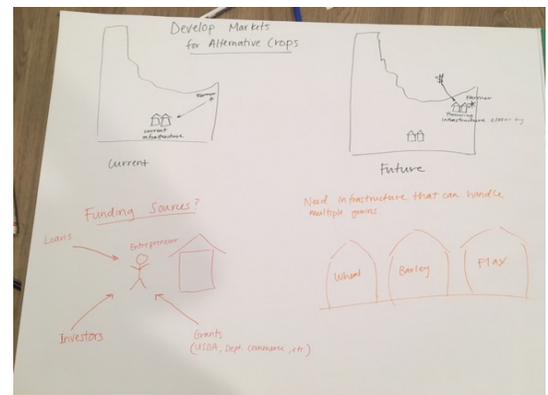


Image 4: Ashton Agriculture Solution



Agriculture and Rangeland Breakout Group

Solution 1.4: Opportunity of the Month

- Process begins with brainstorming energy efficient opportunities in community
- Goes to endorsement committee
- Total cost of ownership tool
- Committee determines opportunity of the month
- Gets taught in schools and becomes opportunity of year
- Neighbors implement opportunity of the year



Image 5: Participants present Opportunity of the Month



Infrastructure and Built Environment Breakout Group

Solution 1.5: Collaborate to Motivate Green Thinking at Policy Level

- Grassroots individuals identify opportunity
- Experts join forces before going to policy makers
- Grassroots members also go to policy makers



Health and Quality of Life Breakout Group

Solution 1.6: Small Scale Food Production

- Goal: to demonstrate correlation between environment + food + health
- Partners: Farmers, teachers, funders, county commissioners, farmers' market, faith based organizations, non-profits, YMCA, healthcare practitioners, 4-H & FFA, Universities
- Note: Have capital and want more - and how to market them
- Engagees: Faith based organizations, homeless, schools, non-profits, marginalized populations
- Benefits: Social and mental engagement, build community by sharing space and food, lower carbon footprint, physical well-being
- Underlying theme: pollinators, carbon footprint, fossil fuel use, and engaging with rural and underserved communities
- Start with children and that engages the entire community with trust and dialogue
- Wisdom from ancient practice of sharing food and community

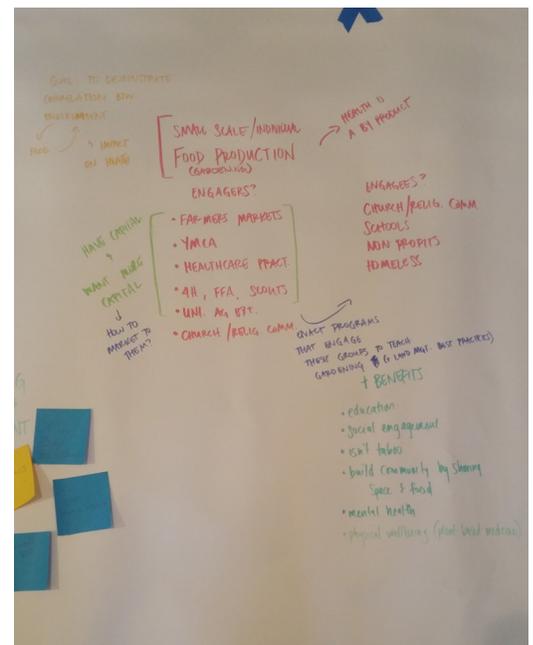


Image 6: Small Scale Food Production



Health and Quality of Life Breakout Group

Solution 1.7: Create Local or Industry-Specific Working Groups

- Create local or industry-specific working groups that meet more regularly, maybe every other month or quarterly
- Provide an opportunity for relationship building between business people and other folks (university academics, agency and municipal employees, tribal representatives, etc.)
- For agriculture, the University of Idaho could assist farmers in adapting to a changing climate by helping to implement best management practices and researching practices that farms could use to remain resilient and profitable in the face of a changing climate. For instance, UI could:
 - Define best management practices that are climate friendly and sustainable
 - Help bridge the gap between producers and consumers (create connection between farmers and the public) through outreach programs that define sustainable best management practices and clarify why they are compelling
 - Support creating a more localized economy through labelling and certification programs. These programs, along with more traditional education, can inform the consumer of where their food is coming from and how it is being produced



Forests and Wildfire Breakout Group

Solution 1.8: University/Business Partnerships

- Have universities partner with cities (e.g. UI partner with City of Moscow) to help the cities incorporate the climate risks, adaptations and mitigations into their city planning
- Advocate that smart growth for cities also results in better overall citizen health which benefits business as well
- With this partnership, the universities could then work with the cities to help businesses incorporate climate mitigation into their planning
- Work with commercial real estate agents who have a surprising amount of power to influence change due to their positioning between businesses/developers and city/municipal governments
- Create mentorship programs between industry and undergraduate students



Infrastructure and Built Environment Breakout Group

Solution 1.9: Create Air Quality Safe Havens

- Encourage businesses to create and market themselves as safe havens during poor air quality days
- Encourage carbon offsets policies; and encourage participation in carbon offset programs
- Encourage clean air/ hvac rental services for residential and commercial housing when air quality is poor



Health and Quality of Life Breakout Group

Opportunity Area 2: Change Mindsets and Communication

Solution 2.1: Story Map of Personal Stories - Connecting People to Land

- Capture stories specific to places in Idaho by interviewing people connected to those places, then use a map (digital) that would show the story. Someone could click on the map on a particular place and the story would pop up.
- This is a story map of stories. Think about homesteaders and what they experienced. Focus on “from the heart” video interviews of people connected to specific places in the context of how things were in the past and the changes they have seen from their personal experiences with a focus on land, water, weather, etc. The idea is to capture these stories and a “story map” would just be one way to share with others.
- A group of people to put it together. Perhaps hire an intern to put it together; have a museum to have ownership.
- This initiative would not create the product. It would be bringing it in.



Forests and Wildfire Breakout Group

Solution 2.2: Seeds to Pass - Connect People to Nature

- Free pass to outdoor areas given to those who volunteer in stewardship project- idea from Last Child in the Woods
- Federal agencies, influence, children or adults that spend one day doing conservation practices – on federal land get a free pass to outdoor recreation locations, state parks, etc.
- Examples: Collecting seeds in the foothills of Boise Ranger Station, get certified, get the pass; folks in urban areas – tipping point – simple policy that could be counted
- Has a multi-generational benefit



Image 7: Seeds to Pass - Connect People to Nature



Forests and Wildfire Breakout Group

Solution 2.3: Citizen Science Center

- The relationship in the venn diagram is 1) Employers, 2) Employee Wellness, 3) Nature
- Employers have systems in place for employees to save up unused sick days and convert those to wellness days where employees can venture out on citizen science expeditions
- Employees gain wellness, meaning, engagement, purpose, and reconnection with nature
- Employers can use this as part of marketing and branding as a science/nature/green/adventure business for new talent and gain wellness and engagement from employees
- Employees get trained and bring skills back to their employers
- Field camps help to collect data and feed into agencies such as BLM, Forest Service, Fish and Game, Bureau of Reclamation, etc. and can transfer into better decision making



Recreation, Fish and Wildlife Breakout Group

Solution 2.4: Scavenger Hunt App

- Create an app for high school students
- Scavenger hunt to find effects of climate change
- Take photos and share on social media
- Bring together school kids and a professional group to identify climate problems on the ground at an outdoor location. Use a game/scavenger hunt to match climate problems with solutions.
- The experience could be recorded with a video or on social media. Sponsors and professional company can use the video as a marketing opportunity



Image 8: Scavenger Hunt App



Recreation, Fish and Wildlife Breakout Group

Solution 2.5: Develop & Issue Cross-Disciplinary/Cross Generational Communications

- Find opportunities to put multi-generations and multi-disciplines together in the field to share experiences, knowledge and viewpoints and to provide solutions to climate change

- Create key messages
- Learn from successful interdisciplinary pursuits & partnerships
- Use mobile technology to issue climate alerts
- Media:
 - School programs
 - Radio
 - Social media/blogs
 - Newspapers & Magazines
 - Conferences
 - Community discussions
 - Governmental Ted Talks
 - Neighborhood block parties to discuss climate
 - Interactive public art exhibit; pop-up city art certain days of the week



Recreation, Fish and Wildlife Breakout Group

Solution 2.6: Required Idaho Core Curriculum

- Create a curriculum to place more value on Idaho’s unique opportunities in relation to nature, recreational activities and fish and wildlife.
- Emphasize connections between access, clean water, fish in the water, time to recreate and reflect in the outdoors, disposable income for recreation as well as what it requires to manage these resources and the need for environmental responsibility (Awareness, Appreciation, Action)

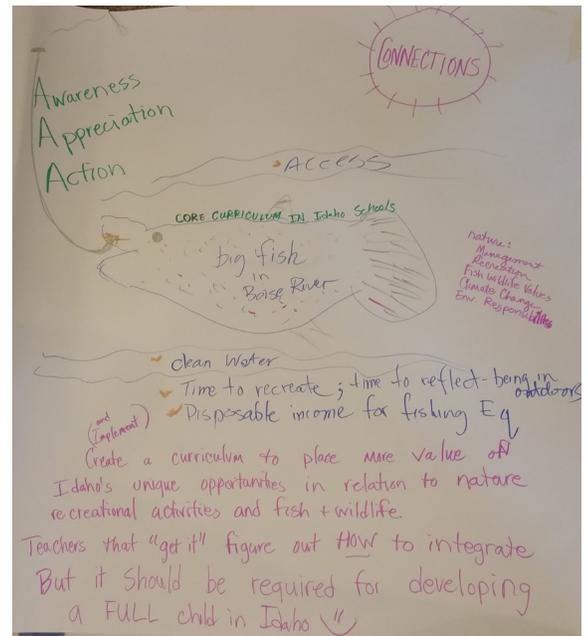


Image 9: Required Idaho Core Curriculum



Recreation, Fish and Wildlife Breakout Group

Solution 2.7: Engage Environmental Careers in High School Career Days throughout State

- Have sustainability, resilience, and environmental student groups reach out to environmental consulting firms, government agencies, and businesses to ensure nature-based or sustainability and resiliency careers are represented at high school career fairs



Recreation, Fish and Wildlife Breakout Group

Solution 2.8: Develop a Clear Unified Message

- Develop talking points (elevator speech)
- Cater talking points to specific audiences
- Focus on economic growth opportunities
- Prepare counterpoints to opposing views
- Create safe spaces for discussion and meet people on their turf
- Try to reach those open to discussion and don't waste time on extremists
- Building the narrative “Do you want to INVEST in the Problem or in the Solution”; building campaigns around this framework

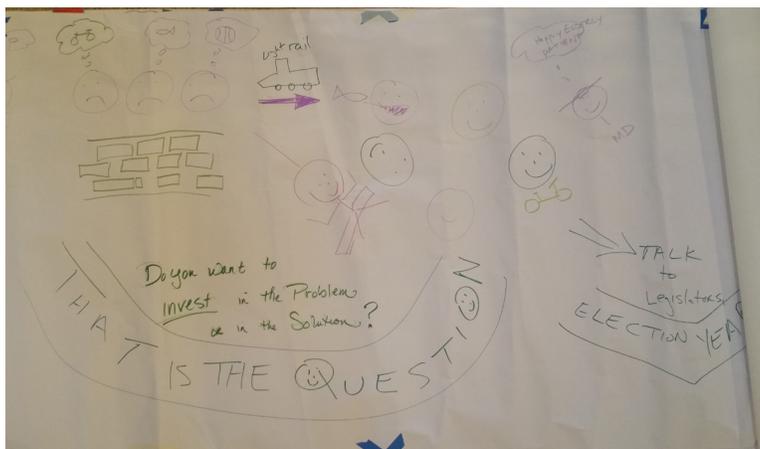


Image 10: Develop a Clear Unified Message



Health and Quality of Life Breakout Group

Opportunity Area 3: Use Metrics and Economics

Solution 3.1: Idaho Quality of Life Stamp

- If indeed Idaho Quality of life is of value to Idahoans, then businesses that improve quality of life should receive a financial dividend for it. If a business has this stamp on their product, then hopefully they can charge more; perhaps they could get a tax break for it.
- Just like the “Buy Idaho” initiative, it would have a “Quality of Life” mark.
- Like the Home on the Range series, produce the same type of storyboard to promote the Quality of Life idea. This could serve as a doorway to ecosystem services valuation and ecological economics analysis for Idaho.
- Development of a new credit based market and or free market certification and standards focused on Idaho “Quality of Life” that reflects economic and cultural values of fish and wildlife and ecosystems – cultural and recreational values. Idahoans puts their mark on things – it’s like a place-based stamp.

- Use stakeholders' testimonials and needs to bring together producers, investors, and economics to develop economically- incentivized risk management solutions.
- The outcome is readily-available financial tools



Health and Quality of Life Breakout Group

Solution 3.2: Water Footprinting

- Create a water footprint policy similar to carbon footprints.
- Audience: policy makers, lobbyists.
- Understand water resource as a footprint that affects all of our communities and understanding that it's related to energy footprints.
- Plan to evaluate how other "footprints" affect the environment and communities and how they are evaluated and use that as a framework. Policies and regulations could use this footprint metric to rate and evaluate developments. This could reduce or eliminate the price of water if we encouraged enough sustainable use of water. Funders could be in industry and associations including grants to get the effort of the footprint put together.
- Long-term costing versus present value of water use plans -- creating an online cost calculation tool that can show ROI and valuable returns from smart water use. Could communicate uses of reused water. Outputs from calculator could be gallons saved, money saved, gallons re-used, etc. End users could be individual households to entire subdivisions or city planning groups



Infrastructure and Built Environment Breakout Group

Solution 3.3: Neighborhood Assessment Impact Transparency Mapping

- GIS map showing energy, water or other utility use for homes or neighborhoods
- Collaborate with city, utilities, neighborhood associations, and homeowners for data; have neighborhoods host mapping parties
- Create actionable plans
- Use targeted specific actions
- Empower citizens to be clear on full price of household purchase



Infrastructure and Built Environment Breakout Group

Opportunity Area 4: Think in Systems

Solution 4.1: Decentralization of Power Grid

- Highlight vulnerabilities of a centralized system using storms, fire, increased demands, flexibility etc. as examples.
- Work with public, politicians, workforce
- Convince people that the technology is here and is affordable
- Use stories to create buy in
- Key point: Build it as it fits; take advantage of opportunities as they come along – as natural disasters and age take out infrastructure, rebuild it better.
- Example: come up with a way to put solar power on houses and change the business model of power utilities to provide opportunity for them to remain relevant in a decentralized, mobile world

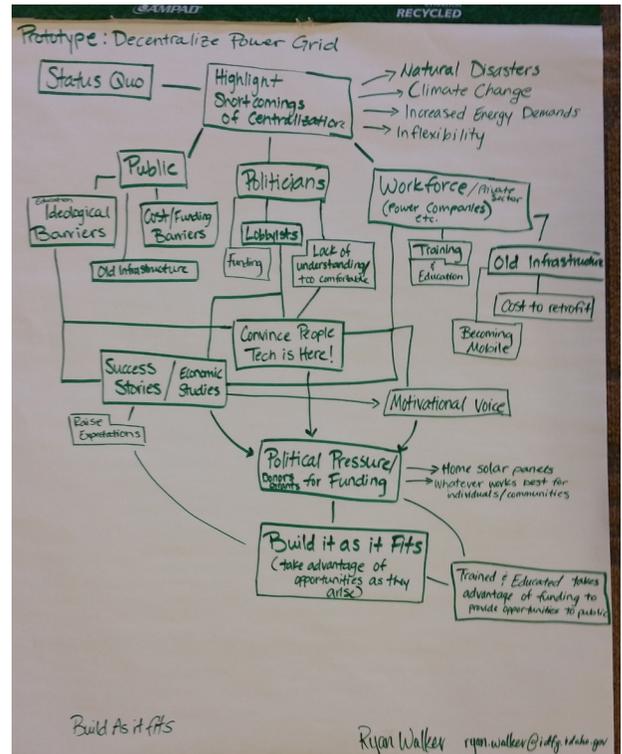


Image 11: Decentralization of Power Grid



Infrastructure and Built Environment Breakout Group

Solution 4.2: Distributed Farm-Produced Renewable Energy

- Lower/offset on-farm costs
- Sell electrons to the grid
- Requires political capital
- Locally produced foods provides benefits to growers
- Grow cover crops - how to we bring this to scale?



Image 12: Distributed Farm-Produced Renewable Energy



Agriculture and Rangeland Breakout Group

Solution 4.3: Create Reliable Water Quantity and Quality through Water Banks and Recharge

- Look at existing solutions in progress
- Collaborate across solutions groups

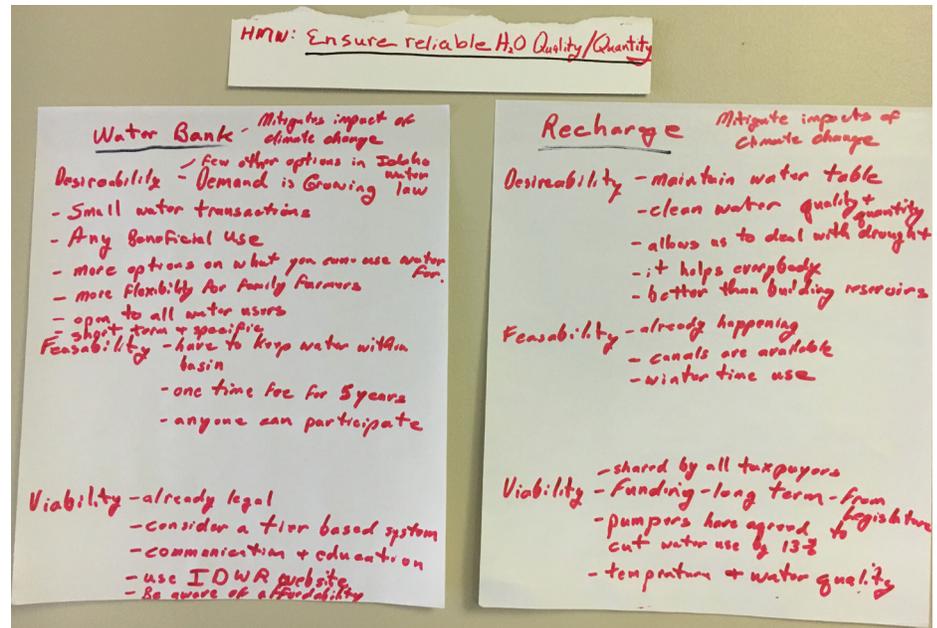


Image 13: Create Reliable Water Quantity



Agriculture and Rangeland Breakout Group

Solution 4.4: Water Reuse Demonstration Project (WRDP) - Grey Water

- Create a demonstration project that could demonstrate grey water use and how it can be used by communities multiple times before going back into the system
- Using neighborhood to open up how laws can be adjusted
- HOA with a common collection center and cycle it back to irrigation use.
- Reduce potable water use
- Need developer on board and improvement district
- Financial support comes from water credit trading
- Develop a pilot project/test site
- The group identified several groups working on water who could fund this project. Beneficiaries could be developers, homeowners, new and redeveloped infrastructure
- Initial costs could be covered by developers and stacked benefits would be something that would attract users/buyers



Infrastructure and Built Environment Breakout Group

Opportunity Area 5: Focus on Local

Solution 5.1: Climate Summit for a Day aka County-by-County Climate Summit

- Create a small-scale climate Summit for one day in each county
- Gather local presenters; include county commissioners
- Have four focuses: 1) How is climate changing in my county; 2) What is projected to be occurring; 3) How are people already reacting; 4) What tools are needed?
- Focus on hyper-local issues
- Create concurrent events targeting students and communities (e.g. have schools develop or propose a citizen service project in the community); perhaps model after “Capital for the Day” or UI Extension program, or CVI
- Funding comes from:
 - Governor STEM office
 - Local sponsors
 - B Corp
 - NOAA via IWRRI
 - OEM
 - U.S.Navy

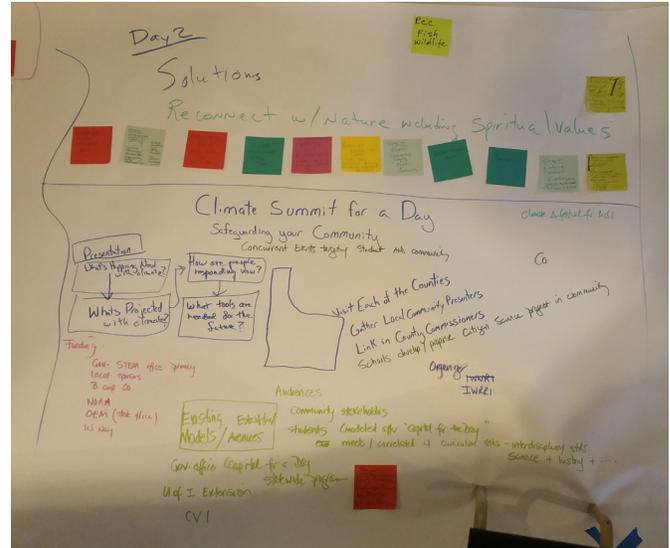


Image 14: Climate Summit for a Day



Recreation, Fish and Wildlife Breakout Group

Solution 5.2: Local Emergency Planning Meetings

- Hold local contingency emergency planning meetings
- Hold disaster roleplay drills
- Create a community “Cookbook” for sharing local community experiences, stories, and actions
- Use social media for sharing stories



Recreation, Fish and Wildlife Breakout Group

Solution 5.3: Local community conversations across the state - Safeguarding Idaho’s Economy and Lifestyle: Ensuring the past, present and future

- Use public libraries
- They are a safe physical space

- Accessible
- Goal: Honest conversation that starts a ripple
- Explore connectivity - what we have in common and the connectivity of our actions on each other
- Identify what is already working as well as opportunities and challenges
- Needs: Ground-rules, materials - very similar to what we have done over the past two days.



Agriculture and Rangeland Breakout Group

Solution 5.4: Local Issues and Values Marketing - Focus on Public Health

Group used a process diagram to identify steps:

- Look at Historic local data
- Identify a community - Coeur d'Alene for example - highly impacted by smoke
- Identify cultural barriers in raising public health awareness
- Identify and partner with local leaders and community member
- How do they see this issue
- Craft a narrative around local community values threatened by climate change
- Reverse marketing - example of City of Boise (positioned as an outdoorsy community)
- Take the local values marketing to communicate the issues of climate change



Health and Quality of Life Breakout Group

Solution 5.5: Engage Universities/Schools in Leading Carbon-Neutral Status

- Have campuses incorporate building insulation, energy efficient heating and lighting, solar energy or grey water use, better recycling and composting efforts, etc.
- Modify the campus food system to support local and regional farms and produce more of its own food
- Put a greenhouse in every public school
- Partner with 4H and other local youth or other groups on education and hands-on sustainability projects
- Invest more in education, especially STEM
- Advocate for students, staff, administrators, and friends of the school to demand that the endowment divest from fossil fuels



Forests and Wildfire Breakout Group

Solution 5.6: Engage Local Communities in Collaboratives and Incentives

- Create a strong forest community narrative
- Collaboratives/networks to share knowledge expertise, opportunities
- Create a gold standard/standard of practice for protective factors against litigation
- Bring communities into the collaborative process early to ensure the success



Forests and Wildfire Breakout Group

Solution 5.7: Local Fire Prevention Incentive Program

- Look at model Wildland-Urban Interface (WUI) codes (CCR, HOA, etc.) in Idaho counties and work with ICRMP to identify potential leaders and collaborators
- Fund fuel reduction - through nonprofit service use
- Survey existing counties to find out what is working
- County property taxes decrease in Idaho to reflect those who responsibly implement defensible space measures
- Marketing and promotion of existing competitive wildfire grant programs available to implement WUIs by Federal agencies
- Identify and create a complimentary state wildlands fire grant program focused on long term defensible space. Suggest \$50M to start it and use of interest to fund projects.
- Create policy in Idaho for counties that do not require, or do have but need to update, WUI codes to share in all fire suppression costs
- Look for shared incentives for entities, neighborhoods, cities, communities and counties to address WUI opportunities
- Incentivize responsibility with reduced insurance cost for partners in Wildland Fire Districts and individual entities that comply with fire marshal developed rubrics for that place
- Local firefighters identify real, workable incentives, with community partners
- Complete a 'Best Practices' Delphi study with exemplary WUI models in the west for wildland fires and resource protection in light of our changing climate
- Have fire professionals with defensible space experience on P & Z committees and boards for ALL Idaho counties
- Develop "community based" fire response plans for WUI events
- After the fire we have Teachable Moments (e.g. Table Rock, Ada County; Beaver Creek, Blaine County) where community engagement can take place, with BMPs for defensible space. When rebuilding takes place require it to meet or exceed defensible space standards so that repeated local, state, and federal funding is not repeatedly required.
- Develop proactive fire response plans by communities before the fire



Forests and Wildfire Breakout Group



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Appendix 3: Post-Summit Strategic Planning

Following the Summit, the Summit planning committee issued a survey to participants, conducted interviews and held a strategic planning session to review the outcomes from the Summit and explore how best to move forward with the Summit dialogue. The James A. & Louise McClure Center for Public Policy Research conducted an analysis of all survey respondents to provide the planning committee with a synopsis of survey results.

The post-summit outreach and strategic planning process and outcomes are summarized here.

Participant Commitments

After the Summit, participants were asked to give feedback and were invited to make a commitment for future action. Out of the 500 participants asked, 73 shared their commitment for engaging with climate issues in Idaho. These commitments fell into three categories:

1. Communication about Economic Impacts and Opportunities
2. Specific Mitigation or Adaptation Actions
3. Building Partnerships

While the commitments were fairly evenly distributed among the categories, most of the participants made some sort of commitment to furthering the dialogue or communicating about the economic impacts and opportunities of climate change in Idaho. Participant commitments are listed below:

1. Communication and Dialogue

- “Opening up more of a dialogue with people on this subject both in and out of my field.”
- “Professionally we are committed to furthering the dialog of the Summit and participating in future events that attract various stakeholders and user groups.”
- “We will try to present actions that are good for the environment as good for the environment and drop climate change discussion to avoid alienating those who still aren’t convinced about climate change.”
- “I will likely continue discussions with some of the participants in my break out group on the educational components.”
- “To discuss the economic reality of what’s going on with severe weather - stop fighting about who is right.”
- “Increase education outreach efforts for wildfire smoke exposure”
- “Try and stay more engaged and aware about what we can do in our community and start spreading the message more.”
- “I will be less hesitant to include climate change issues in future discussions of challenges and opportunities for agriculture in Idaho.”
- “Spread the word on measuring energy use: benchmarking policies, new building codes, etc.”
- “I will keep the discussion growing.”
- “Provide link to useful talks to others that might be interested.”
- “Continue to volunteer to work with children and adults who are interested in learning about forest management practices and how it affects our environment.”
- “I commit to keeping the conversations about Idaho’s changing climate focused on adaptation and solutions and how to move Idaho’s larger industries towards more sustainability.”
- “My commitment is to be better versed in the issues so I can discuss clearly with those who doubt or do not know how climate change affects them and how they can be part of the solution.”
- “Make more effort to bring climate-adaptation issues to people who did not attend the Summit, particularly water users and water managers.”

2. Specific Actions

- “I will add more solar collectors and work with CCL for additional action.”
- “I will work with my colleagues to reduce our greenhouse gas emissions and collaborate with community stakeholders to find real solutions.”
- “Look to implementing business actions that can address climate change and make an effort to share that information.”
- “We will work toward water conservation.”
- “I plan to document my company’s sustainable practices and share them with my customers. I’ve done this with other companies but not this one so much.”
- “Use less plastic.”
- “Patronize businesses that are proactive about climate.”
- “Our organization is going to revisit the idea of divestment. We discussed it in 2013, but we have learned so much more since that time. We also think the market is more developed at this point and it might be a better fit in 2018 than in 2013.”
- “Buy HP printer cartridges”
- “We have already switched to CFL bulbs at our home. However, I will be seeking companies that are attempting to be or are carbon reducing or carbon neutral for future purchases.”

3. Coalition Building

- “Redouble efforts to build a coalition of climate action supporters in Idaho.”

- “I will reach out to my new colleagues in Idaho and plan to join farmer meetings in February as a result of conversations I had at the Summit. I also look forward to building more bridges between the NW Climate Conference and any future Idaho Climate Summit activities.”
- “I will network with people interested in tackling climate change through transforming the way we build our cities and think about shared resources in an effort to further my education and future career opportunities in areas where I could create impact in those industries.”
- “My organization will look into joint projects with non-traditional partners.”
- “I would like to see clean energy solutions publicly incorporated into our business goals at Idaho Business for the Outdoors. I will be reaching out to businesses, ranchers and farmers to learn more about their efforts and actions in response to our changing climate.”
- “Re-energize and further develop the southeast Idaho working group.”

What Participants Would Like to See Moving Forward

1. Entice more business people
2. Connect and disseminate the summary to innovation centers across Idaho, entrepreneurs and thinkers
3. Have another/more meetings
 - a. Large conference every two years with smaller events annually, facilitated locally
 - b. Engage in deeper workshops/collaborations where ideas are more fully flushed out among multi-disciplinary teams.
 - c. Should mitigation and adaptation be discussed separately?
4. In problem solving bridge the need for categorization and the need to be multidisciplinary
 - a. Strengthen partnerships across disciplines and businesses and deepen communication
5. Link science to actions discussed, more stats, either affirm or question assumptions and knowledge applied re: climate impact, not chasing perceptions
6. Get science as local as possible
7. Disseminate success stories: what is working for business/industry and what is not on the website
 - a. Provide plenty of examples of other initiatives happening elsewhere to inspire people to think creatively and entrepreneurial
 - b. Create business incubator working to innovate sustainable enterprises. Food security and local economics has huge potential in this state. See links: <https://www.coa.edu/live/profiles/1812-hatchery/templates/details/courses.php>
<https://www.coa.edu/live/news/1312-coa-wins-food-innovation-competition>
8. Close the gaps between university research and business organizations. Do work in the universities to link science to the issues/solutions identified by businesses.
9. Promote the STEM fields, especially for the advancement of renewables.
10. Be in touch with Ag commodity organizations. Ascertain needs during the 2018 Farm Bill discussions at the federal, regional and local levels. Also, watch trade negotiations.
11. Share more and more information about climate and go deeper with businesses, business associations, Chambers of Commerce and all of their networks.
12. Focus on opportunity and market potential. Look at emerging markets. Focus on the bottom lines of ROI and public good. See UI CBE Dean Marc Chopin’s comments.
13. Consider shareholder trends and investor activism.
14. Bring policy people into the fold
15. Be cognizant of policy needs and implications but keep from politicizing the topic.

Strategic Plan

On January 9, the planning committee from the Summit met to develop recommendations for post-Summit action. During the four-hour workshop, committee members reviewed the values and vision underpinning the Summit, online participant survey results, and challenges and solutions generated at breakout sessions. Next, the committee generated and discussed visions for where they would like to see Idaho five years from now. They then discussed and prioritized the long list of solutions generated at the Summit, using criteria including available resources, scale of impact, unique skills, and progress toward the vision statements.

By the end of the workshop, the committee identified four recommendations for action as follow up to the Summit:

1. Produce an economic analysis and solutions roadmap for climate impacts in Idaho.
2. Support workshops in local communities to foster dialogue and incubate solutions, including industry-specific workgroups as appropriate.
3. Promote cross-sector project teams to work on climate-related initiatives.
4. Explore opportunities to add value to the 2018 Northwest Climate Conference in Boise this October.

The committee recognized that the presentations and breakout sessions at Safeguarding Idaho's Economy in a Changing Climate generated dozens of compelling climate solutions for Idaho (see [Appendix 3](#)). Committee members also expressed the hope that many of the 550 participants at the Summit would begin working on these solutions. The four recommendations above represent the areas in which the planning committee partners felt they could contribute most effectively in building on the success of the Summit. The rest of this summary provides more details on the values and vision, solutions, and recommended actions discussed at the January 9 workshop.

Values and Vision

As a basis for this discussion, committee members reviewed the purposes, outcomes, and values developed at the outset of the planning effort for the Summit, and found that the early vision was still relevant:

- Increase understanding of how climate change is affecting Idaho resources, business, economies, communities, and people.
- Learn about climate change solutions and actions already being taken in Idaho by Idahoans.
- Build collaborative climate solutions and adaptations that are Idaho-based, Idaho-driven, and Idaho-focused.

The committee also felt that in terms of values in pursuing this vision, it still makes sense to take a “triple bottom line” approach that balances economic, environmental, and social needs in addressing climate change. Committee members recognize that Idahoans have a long history of working together to solve resource concerns and intend to honor the collaborative approach in efforts going forward.

The committee identified several areas for helping achieve the vision and values building from the Summit, including:

- Increasing cross-sector collaboration to develop climate solutions.
- Further building the business case for addressing our changing climate.
- Improving the pace and scope of university and business partnerships.

- Helping Idahoans understand climate effects and what they can do, both through community outreach and in schools.

Recommended Actions

The committee's recommended actions aim to provide feasible next steps for committee members and partners to take in the coming months to help achieve the longer-term vision identified above. They also seek to embody a triple-bottom-line, collaborative approach to addressing climate risks and opportunities in Idaho.

1. Economic Analysis and Solutions Roadmap

Speakers and participants at the Summit began identifying Idaho risks and opportunities, but also identified the need for more information and a deeper understanding to inform decision-making. The committee proposes that Idaho business interests and research institutions develop a report on the economic impacts and possible solutions for Idaho's changing climate. This work will provide an evidence-based deeper dive on the dialogue begun at the Summit. Committee members from the universities and the Society for American Foresters have agreed to initiate a dialogue around this topic.

For this effort, communications and outreach will be just as important as the analysis. Promoting a dialogue around Idaho's changing climate requires engaging Idahoans. Partners will develop compelling and information-rich materials and an effective way to share them with community and business leaders. The committee specifically envisioned part of the report to include a clear roadmap for various businesses and industries throughout Idaho to easily incorporate and implement the presented information.

2. Local Workshops

Participants at the Summit expressed a keen interest in continuing the conversation in their local communities. The committee proposes providing resources and support to help local leaders (e.g. county commissioners and business leaders) drive community conversations tailored to local impacts and needs. Organizers would seek to promote the values of respect and collaboration that defined the Summit.

In an early example, the Idaho Water Resources Research Institute (IWRRI) is organizing two pilot workshops for the spring of 2018. University of Idaho researchers will zero in on watershed impacts to inform a locally led discussion around risks and resilience.

The committee recognizes the need for flexible workshop formats to match local conditions and priorities. For example, Summit participants recommended conducting workshops at local libraries as a safe space for challenging conversations. Some workshops may focus on the local chamber of commerce and business leaders, while others may use a town hall format aimed at a broader set of stakeholders. Maintaining a respectful, neighborly atmosphere will be important to promote open dialogue.

The committee agreed to convene a group to further explore the opportunity for local workshops, building upon the initial IWRRI effort.

3. Solutions-Focused Industry-Specific and Cross-Sector Workgroups

According to survey results, one of the biggest draws for participants at the Summit was the opportunity to network and collaborate within and across industry sectors. The committee is committed to supporting the incredible talent, energy, cross-sector sharing and innovation of the Summit participants. The committee will

seek opportunities to galvanize project teams made up of Summit participants and other Idahoans around new climate solutions as well as those produced at the Summit and outlined in [Appendix 3](#).

Project teams will seek opportunities to support currently existing industry workgroups with resources to showcase existing Idaho business and industry successes that demonstrate the business case for addressing the changing climate. Additionally, project teams will explore how to support new cross-sector collaborations and carry out solutions proposed in this [Appendix 3](#). An integral goal of the project teams would be to close the gap between statewide university research and business utilization and implementation of university resources

4. Northwest Climate Conference

This October, hundreds of researchers will gather in Boise at the annual Northwest Climate Conference (NWCC). The committee discussed the continued value of promoting dialogue between climate scientists and community and business leaders to learn from each other and to drive climate research and solutions. Committee members agreed to explore opportunities to add value to the 2018 NWCC.



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Appendix 4: Summit Media Coverage



Letters from the West

Energy and environmental news from across the West

LETTERS FROM THE WEST

Get government off my back and I can deal with climate change, say these conservatives

BY ROCKY BARKER
rbarker@idahostatesman.com

November 06, 2017 06:20 PM
 Updated November 09, 2017 05:19 AM

MOSCOW — A standing-room-only crowd, mostly students, greeted former South Carolina Republican Rep. Bob Inglis last month at the University of Idaho College of Law.

“Who believes in climate change?” he asked. Nearly every hand went up. “How many think it’s human-caused?” Most kept their hands up.

The evangelical Christian country lawyer, who represented one of the reddest districts in the nation twice in the 1990s and 2000s, brought his message in particular for the ones who put their hands down or never raised them at all. As the Trump administration attempts to roll back climate policies and erases climate change information from federal websites, Inglis, with the zeal of the converted, has become one of the leading Republican voices for taking action on the problem.

But isn’t climate change about control? Aren’t those climate scientists just greedy people chasing government money? Isn’t Al Gore full of it with his movies full of doom?

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That's what Inglis used to think. But his kids and his wife urged him to look into the issue deeper after he lost a bid for the U.S. Senate in 1998.

He went on several trips with scientists to Antarctica and the Great Barrier Reef as a member of the House Committee on Science, Space, and Technology. They showed him ice cores displaying an uptick in carbon dioxide levels in the atmosphere, coinciding with the Industrial Revolution.

By unearthing fossil fuels created over millions of years and burning them over the course of the last 200 years, we've changed the chemistry of the atmosphere, he said. That's not controversial, it's measurable.

But what brought him around came on a more human level. A conversation with a scientist over lunch shifted to the Christian faith the two shared. Their common values showed Inglis that the scientist was studying climate change as a way to practice his faith in God and to responsibly protect God's creation.

But it didn't change Inglis' mind about the role of government. With his group, RepublicEn.org, he continues to want government to get out of the way and let free enterprise solve the climate problem.

His inspiration is Milton Friedman, libertarian economist and advisor to President Ronald Reagan. Friedman never addressed the economics of climate change while he was alive. But Inglis and others have compared the issue to Friedman's beliefs on how to handle the costs of other pollution forced upon the public.

The carbon that companies are putting into the atmosphere is pollution, Inglis said. The answer? Tax that pollution and create an incentive for industry to reduce it.

As Democrats pushed for a more regulatory mix of subsidies and a "cap and trade" system, Inglis introduced a carbon tax alternative to combat climate change.

Coming in the heart of the recession, it did not go well in his district. Despite his burnished credentials — a 93 score from the American Conservative Union, a 100 percent rating by the Christian Coalition of America, an A from the National Rifle Association — he was defeated handily by Trey Gowdy.

That's why you don't see many Republican politicians joining him on the climate change bandwagon.

Many conservatives also resist the gloom and doom approach and resent the tone of many scientists and climate advocates. Inglis' advice to climate professors at the University of Idaho is to speak as equals.

"It's important to approach (skeptics) with humility and not be condescending," he said.

Idaho businesses have been dealing with climate change for at least the last decade. The earlier snowpack; the longer, fiercer fire seasons; the shifting energy markets affect farmers, the timber industry and companies that serve them like J.R. Simplot, Monsanto and Idaho Power.

You don't see them pushing publicly for the Idaho Legislature to clearly recognize climate change and take action based on that knowledge. But it doesn't mean they are ignoring the issue.

For one, they are joining with the state's universities and community groups on a statewide conference: "Safeguarding Idaho's Economy in a Changing Climate" Nov. 16 and 17. The sessions at the Boise State University Student Union will be live-streamed to the University of Idaho, Idaho State University and the Henry's Fork Foundation office in Ashton.

Mostly, said one industry spokesman who did not want me to use their name, Idaho companies are investing in a future based on the science. In the energy world that means clean energy, battery research, energy efficiency, electric cars, biofuels and other alternatives to coal, oil and natural gas.

"We just want government to get out of our way," the spokesman said.

My source pointed to the national climate assessment report released last week by the Trump administration despite the president’s and his senior officials’ skepticism about climate change and its cause.

“It is extremely likely that human influence has been the dominant cause of the observed warming since the mid-20th century,” the report said. “For the warming over the last century, there is no convincing alternative explanation supported by the extent of the observational evidence.”

The report was peer-reviewed by the National Academy of Sciences. Its authors, from across government and academia, say the average annual temperature has risen 1.8 degrees Fahrenheit since 1900 and will continue to rise unless greenhouse gases are dramatically reduced.

There is a lot to fear in the report: more extreme heat, more flooding, rising sea levels, even more wildfires. But climate change will also bring economic opportunity as people develop new technologies to reduce greenhouse gases and help us adapt to the changing conditions.

Accepting the scientific reality allows us to turn our political debate to the solutions, from policies to unleash private enterprise to more regulatory approaches. If Al Gore takes the free enterprise route, Republicans should not begrudge him success,” Inglis said.

“If he makes a zillion dollars I’m for him,” Inglis said.

Rocky Barker: 208-377-6484, @RockyBarker

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LETTERS FROM THE WEST

With Idahoans split, our big employers take the lead on adapting to climate change

BY ROCKY BARKER
rbarker@idahostatesman.com

November 21, 2017 05:04 PM
Updated November 22, 2017 12:10 PM

Most Idahoans say climate change is happening. But less than half think humans caused it and can do anything about it.

A group of scientists, economists, farmers, business leaders, environmental activists, and local government leaders came together around the state last week in the latest effort to change that statistic. Before Idaho can come together behind ways to fight and adapt to climate change, people need to talk, said Toni Hardesty, executive director of the Nature Conservancy of Idaho.

“The only Idahoans who are not impacted by climate change are those who don’t use water, electricity, eat, breathe, recreate, rely on the forest endowment for their children’s education,” Hardesty said at the Idaho Climate Summit.

The talking is important, but Idaho businesses aren’t waiting for a local political consensus to react. They can’t afford to.

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They depend on a global market that already has shifted toward a green economic model designed to “decarbonize” the economy. Companies like J.R. Simplot, Clif Bar, Monsanto and HP risk being left behind if they don’t act quickly.

“These are expectations we are seeing from our customers and our investors,” said David Eichberg, an HP sustainability executive.

The businesses have made commitments to dramatically reduce energy use, water use and greenhouse gases over the next decade, in part to meet the goals set by world leaders in the Paris Accords. Some of those gains they’ve already achieved: Simplot has reduced its energy intensity (the total energy it uses to make each bag of potatoes or fertilizer) by more than 10 percent, with savings at two of its factories exceeding 25 percent. Put simply, the company uses less power while still producing the same amount of potatoes and fertilizer, which aids its bottom line.

Simplot also has reduced its own water use, but to meet its ambitious goals it needs to get the farmers who supply its potatoes on board. Simplot is encouraging them to plant other potato varieties that have yields 30 to 40 percent higher than Russet Burbanks, the traditional Idaho

potato. This reduces the number of fields in production and the amount of water and energy the farmers use.

All of these companies are using incentives to get their suppliers on board. Clif Bar came to Idaho not because of this state's low taxes, but because of a young, skilled workforce and the high percentage of renewable energy that feeds Idaho Power's network, said Rich Berger, Clif Bar's vice president of engineering and food supply.

To make its Twin Falls plant 100 percent "clean green power," Clif Bar bought clean energy credits from the Meadow Creek Wind Farm in Ririe. And it gives its workers generous incentives to buy electric cars.

So far 430 workers, a third of its workforce, have bought the cars. This behavior is changing Idaho despite the lack of leadership from the Idaho Legislature, the state's congressional delegation or Republican primary voters.

A Yale University poll showed that the majority of Idahoans believe climate change is only affecting others. That's despite the smoke they breathe from the regular megafires we experience, and the early snowmelt that leaves less water in our rivers in summer for power, irrigation and fish.

I have covered the climate for 42 years and watched how a well-paid band of professional skeptics have exploited the inherent uncertainties that a change of a global scale has. They have brought along thoughtful people who also fear they'll be bound by international regulatory handcuffs intended to stop climate change.

So first, they denied it was happening. Then, they said humans had nothing to do with it. Now, they say there is nothing we can do.

Fred Birnbaum, vice president of the Idaho Freedom Foundation, said the measures the Paris Accords recommended won't stop climate change.

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Get government off my back and I can deal with climate change, say these conservatives

“Show me the data that those things will have a meaningful impact on climate,” Birnbaum said Monday.

I could show Birnbaum the scenarios climate scientists agree on, like a 7-degree Fahrenheit rise in global temperature by 2100 if past trends continue. And that the same scientists say the actions proposed by the Paris Accords would reduce the warming by 1.8 degrees Fahrenheit, which may be the difference between a rough adaptation period and catastrophe.

But it's true: The world will get warmer no matter what we do. It's just how warm, is the issue.

Kate Gordon is senior advisor of the Paulson Institute, started by former Treasury Secretary Hank Paulson. Businesses, communities, states and countries, she said, face more risks than just the natural impacts of climate change — rising oceans, shifting agricultural zones, extreme weather and drought.

Failing to act could also leave us with an economy, infrastructure and institutions built on a carbon foundation, while the rest of the world moves on by us.

Rocky Barker: 208-377-6484, @RockyBarker

 **COMMENTS** 



GUEST OPINIONS

Idaho Climate Summit: Solutions to safeguard our economy

BY DAVID EICHBERG

November 10, 2017 08:10 PM

Updated November 12, 2017 12:56 PM

Nearly two-thirds of Idahoans understand that the state's climate is changing — yet only one-third of them are talking about it. That's according to a 2016 Yale University public opinion poll, and reveals a gap between knowledge and action.

We are witnessing more intense wildfires, hurricanes, drought and floods in line with what climate science predicts. Our businesses and communities will increasingly face extreme weather and greater resource constraints and costs. To succeed and thrive, we need to encourage dialogue, devise solutions and share learnings.

On Nov. 16-17, business and civic leaders around the state will convene the Idaho Climate Summit to explore how we can collectively address the impacts of a changing climate and safeguard Idaho's economy. Businesses, organizations, schools and individuals are welcome to participate, either online or in person at sites around the state.

HP is one of several companies and organizations supporting the summit. We see the need for climate action not only as our responsibility, but vital to our long-term success. Our customers and investors also expect this of us. We work to make our company more efficient, resilient and competitive by innovating and improving how we work and what we deliver. For instance, the HP print cartridges you use today are made using a recycled plastic sourced from plastic water bottles, apparel hangers and HP cartridges returned through our Planet Partners program. In over 3 billion cartridges to date, this closed loop plastic uses half the amount of fossil fuel and has a 33 percent smaller carbon footprint than new plastic.

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We apply the same reinvention mind set to our own operations as well. Driving by the Boise HP campus on Chinden Avenue, you may notice a change in the landscape — literally. Working with local and national groups, we are replacing non-indigenous grass on our campus with native grasses that require less maintenance and attract local pollinators. The campus now saves 82,900 cubic meters of water annually (enough to fill 33 Olympic-sized swimming pools), and has reduced emissions by 90 percent and landscaping costs by nearly 50 percent. That's a smart solution for an increasingly water-stressed region. The project was just awarded a SITES Gold certification for designing, developing and maintaining sustainable landscapes. It's the first certification of its kind for the state of Idaho and the first corporate campus in the world certified using the SITES v2 rating system.

As the Idaho Climate Summit will show, many Idaho companies are devising their own solutions to similar effect. Ideas and innovation are emerging from the private, public and non-profit sectors across the state to help meet the needs and interests of all — from farms to forests, from recreation to manufacturing, and from wildlife to human health.

The summit this offers both a focal point and a starting point for the conversation, cooperation and creativity we need to champion Idaho's economy into the future. We can address the challenge before us if we engage on the issue and act together.

David Eichberg is global initiatives lead for sustainability and social innovation at HP Inc. in Boise.

MORE DETAILS

Get info about the Nov. 16-17 summit at Boise State University at www.idahoclimatesummit.com .

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Conference covers the 'new normal' of climate change in Idaho

By: Sharon Fisher © November 20, 2017

Comments Off on Conference covers the 'new normal' of climate change in Idaho



The Boise River. The city of Boise is doing what it can to reduce water temperatures in the Boise River in the face of global warming. File photo

The discussion on climate change has pivoted, moving from how to prevent it to how to live with it, to looking at the costs – and even the benefits – of the new normal.

That was the theme of "Safeguarding Idaho's Economy in a Changing Climate," a two-day conference put on by a coalition of groups including the Idaho Rural Water Association Nov. 16 and 17 at Boise State University. Attendees included about 250 on-site in Boise, as well as 70 in Moscow, 50 in Pocatello, and 30 in Ashton, plus an unknown number who watched a livestream of the proceedings.

"We wanted to talk about this, not in a doomsday kind of way, but 'hey, this is coming, how do we deal with it?'" said Kelsey Nunez of Warm

Springs Consulting, and a member of the association's planning committee.

"It isn't a door opener when you want to talk to legislators about climate change," said Amy Rene Lientz, director of partnerships, engagement, and technology deployment for the Idaho National Laboratory, who participated in a panel on new business opportunities and solutions for Idaho. "It is a door opener when you talk about the economy."

While the Northwest isn't as much at risk from global climate change as regions such as the southeast, climate change could still be expensive. Costs of climate change include the public health costs of more diseases such as West Nile virus, the larger energy demand required for cooling, and the longer, larger, and more destructive wildfire seasons that have increased the cost of fire protection from \$7 million to a 10-year average of \$22 to \$23 million, said David Groeschl, state forester and deputy director of forestry and fire for the Idaho Department of Lands.

In one example, the increased temperature could make survival more difficult for Idaho's trout and salmon, which need cold, clear water, warned Kira Finkler, Idaho water and habitat program director for Trout Unlimited. One presenter joked that under existing conditions, Trout Unlimited might have to change its name to Perch Unlimited or Bass Unlimited because those fish are more tolerant of higher temperatures.

Several organizations, such as Idaho Power and the city of Boise, described what they are doing to protect habitat and reduce water temperature through techniques like planting trees on stream banks. But these methods will only go so far – no amount of habitat restoration will help if there isn't enough water for the streams, the panel noted.

The conference wasn't at all bad news. In fact, Idaho is in a good position to benefit from climate change, said conference participants. States like California and companies like Microsoft are implementing requirements for suppliers to use renewable energy and to be nearby. Because much of the electricity in Idaho comes from hydropower sources, the state is in a good position to satisfy these requirements, said Kate Gordon, senior advisor at the Paulson Institute and founding executive director of the Risky Business Project. About half of the energy delivered by Idaho Power comes from hydropower, according to the utility.

Idaho should look at exporting renewable energy the way it looks at exporting potatoes, said Todd Haynes, renewable energy project manager for POWER Engineers.



Amy Lientz

Some of those changes are happening now. Idaho companies such as Clif Bar, HP, and Simplot rattled off a long list of changes they had made to make their businesses more sustainable. For example, a new Simplot factory has reduced its greenhouse gas emissions 20 percent compared with older factories, said Erik Goring, Simplot plant sciences industry affairs and sustainability manager, while HP is now using 40 to 70 percent recycled plastic in its 3 billion printer cartridges. That in turn reduces the factory's carbon footprint by a third and fossil fuel use by half, said David Eichberg, sustainability and social innovation, global initiatives lead from HP.

Climate change also offers opportunities for startups, perhaps in partnership with existing companies such as the Idaho National Laboratory. "Whenever there's risk, and whenever there's challenges, there are opportunities," said panel participant Leif Elgethun, founder of Retrolux and president of the Idaho Clean Energy Association.

Idaho Rural Water Association's Idaho Climate Summit Steering Committee:

Heather Kimmel, Executive Director, American Lung Association in Idaho

Bas Hargrove, Senior Policy Representative, The Nature Conservancy

Gregg Servheen, Idaho Chapter of the Wildlife Society

Jim Chandler, Idaho Chapter of the American Fisheries Society

David New, Snake River Chapter of the Society of American Foresters

Mark Solomon, Acting Director, Idaho Water Resources Research Institute, University of Idaho

Emily Erickson, Responsible Business Initiative Manager, College of Business & Economics, Boise State University

Stefanie Krantz, Sustainability Coordinator, Nez Perce Tribe Water Resources Division

Steven B. Daley-Laursen, Professor, Department of Natural Resources and Society, University of Idaho, Moscow

Bryant Kuechle, Northwest Area Manager, The Langdon Group

Amber Bleg, Kelsey Nunez and Deb LaSalle, Warm Springs Consulting LLC

ABOUT SHARON FISHER



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https://www.idahopress.com/outdoors/idaho-climate-summit-set-for-november/article_e08319d5-c663-52fa-b023-a8a0fb2d9bed.html

Idaho climate summit set for November

By Roger Phillips Idaho Department of Fish and Game Oct 19, 2017



The Idaho Climate Summit is set to take place in Pocatello, Boise and Moscow Nov. 16-17.

Boise State University, University of Idaho and Idaho State University will host the summit, which will be live streamed to other locations.



The summit is an Idaho-grown, Idaho-driven effort to build understanding of how Idaho’s climate is changing and a way to help Idahoans build solutions to Idaho’s changing climate.

Event participants include businesses, resource and land managers, Idaho tribes and tribal organization, researchers and topical experts, public interest organizations, government officials and more.

Idaho Fish and Game is a sponsor along with a wide range of agencies and organizations. More information can be found at idahoclimatesummit.com



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Businesses to host Local Climate Summit with Workshops at Idaho State University, Boise State University and University of Idaho

By Idaho State University Nov 6, 2017

POCATELLO – A first-of-its kind statewide summit will bring together Idahoans for an interactive two-day conversation entitled Safeguarding Idaho’s Economy in a Changing Climate - Our Water, Our Land, Our Health, Our Future on Nov. 16 and 17.

Idaho business and community leaders from diverse sectors, including Idaho Power Company, Hewlett Packard, the American Lung Association, Sierra Club, and Monsanto, will work side-by-side with conference participants to explore solutions for Idaho that mitigate or adapt to the effects of a changing climate.

Morning keynote and panel discussions will be live streamed from Boise State University for participants to view at Idaho State University’s Pond Student Union Building in Pocatello and the University of Idaho Moscow. Afternoon workshops will be held at all three venues.



“The idea is to recruit everyone to the table and have real conversations about real solutions - small and large, individual and collaborative - we all share the same opportunities and challenges,” says David New of the Society for American Foresters. **Advertisement**

Our economy is dependent upon reliable sources of energy and a skilled workforce.

Yet changes, such as increased wildfire and drought, threaten our forests, agriculture,



manufacturing, outdoor recreation and health care. All summit participants will have an opportunity to discuss their experiences, collaborations, insights and expertise to stimulate Idaho's economy and future.

Keynote speaker Kate Gordon, Senior Advisor with Risky Business Project, will frame U.S. economic risks and opportunities presented by a changing climate and emphasize impacts and ideas for Idaho's business sectors. Participants will learn about new business practices, build collaborations and discover solutions that make sense for Idaho communities.

According to a Yale public opinion poll nearly two thirds of Idahoans realize Idaho's climate is changing, but only a third talk about it. This summit provides a setting for constructive dialogue, cooperation and pragmatism. The summit coordinator, Warm Springs Consulting, will compile resultant recommendations that reduce monetary risks and increase economic opportunities for local business, agriculture and ranching owners and employees. Coordinators anticipate participants will discover a number of practical economic opportunities.

Major sponsors of the event include organizers listed above as well as: Idaho State University, Monsanto, Hewlett Packard, DL Evans Bank, Idaho Department of Fish and Game, Idaho National Laboratory, Idaho Power, ISU's Center for Ecological Research, Boise State University, University of Idaho, Water Resources Research Institute, Upper Snake River Tribes, Nez Perce Tribe, Northwest Climate Science Center, Potlatch Corporation, and the Langdon Group.

Register for Safeguarding Idaho's Economy at www.idahoclimatesummit.com.



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https://idahostatejournal.com/outdoors/xtreme_idaho/climate-change-summit-coming-to-isu/article_cb4377a9-16da-5f4a-9dae-b0bce0a900a4.html

Climate change summit coming to ISU

By Jennifer Jackson Idaho Fish and Game Nov 9, 2017



Jennifer Jackson

By Jennifer Jackson Idaho Fish and Game



Jennifer Jackson

By Jennifer Jackson Idaho Fish and Game

If you have concerns about what changing weather patterns mean to Idaho's land, industries, health and recreation, please consider attending the Idaho Climate Summit at Idaho State University on Nov. 16 and 17. The overall theme of this two-day conversation is how to safeguard Idaho's economy in a changing climate.

The Idaho Climate Summit is an opportunity for Idaho businesses, industries, resource and land management agencies, conservation organizations, Idaho tribes and tribal organizations, community leaders and members of the public to get together to discuss impacts of climate change on Idaho's economy, from farming to logging, and from fishing to skiing.

Furthermore, it's an opportunity to learn more about practical and innovative ways to meet the challenges of a changing climate. There are local solutions and adaptations to be explored, and opportunities to build new collaborations and make new commitments.

The summit will offer guest speakers, panel discussions and breakout sessions for summit participants at various locations throughout the state, including Idaho State University in Pocatello. That means that those here in Southeast Idaho don't need to travel far to be a part of the statewide discussion.

Topics to be covered are relevant to those residing in this part of the state, too — focusing in part on forest health, wildfire, fish and wildlife, outdoor recreation, infrastructure and built environments, agriculture and rangeland.

According to summit organizers, this event is “an Idaho-grown, Idaho-driven effort.”

Sponsors of the Idaho Climate Summit are both numerous and diverse, bringing a variety of perspectives. They include Monsanto, Idaho Power, Hewlett Packard, Idaho National Laboratory, Idaho Fish and Game, Trout Unlimited, The Nature Conservancy, Idaho Conservation League, JR Simplot Company, Potlatch Corporation, Society of American Foresters, American Institute of Architects Idaho, Outdoor Industry Association, Nez Perce Tribe, Upper Snake River Tribes, ISU Credit Union, the Idaho Association of Counties and many, many others.

To learn more about the Idaho Climate Summit, or to register for the event, visit www.idahoclimatesummit.com. Cost to attend the event at Idaho State University is \$29 for both days. Other venue options and event details are listed on the website as well.

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https://idahostatejournal.com/opinion/columns/safeguarding-idaho-s-economy-in-a-changing-climate/article_39f04f74-1ce7-5eaa-8fe4-ceb29eb333ed.html

Safeguarding Idaho's economy in a changing climate

By Linda Engle Nov 12, 2017



On April 30 of this year Mike Larkin wrote a well-researched column entitled The Economics of Climate Change. His points are spot on in that the changes that Idaho business folks, farmers, ranchers, and recreationalist are experiencing have a price tag. The good news is there are market-based solutions that will safeguard Idaho's economy, health and unique lifestyle. Mr. Larkin points out the need to address the challenges and opportunities of our changing climate from a rational market-based, non-partisan, business perspective.

In response, a multitude of sponsors, including large corporations, non-profits, and governmental agencies are coordinating a first of its kind economic summit through Warm Springs Consulting in Boise. On the mornings of November 16 and 17, this state-wide summit will begin live-streaming from Boise State University to the University of Idaho in Moscow, Henry's Fork Association Office in Ashton, and right here at the Pond Student Union in Pocatello. The cost for the two-day event is \$29 which includes lunch on Friday; registration is on-line at www.idahoclimatesummit.com.

"The idea is to recruit everyone to the table and have real conversations about real solutions — small and large, individual and collaborative - we all share the same opportunities and challenges," says David New of the Society for American Foresters, Idaho branch.



Many of us are observing the impact of the changing climate and are beginning to realize there are monetary risks involved with decreased snowpack, unpredictable rainfall and warmer weather. But this is only one side of the coin, Kate Gordon, our summit keynote speaker, will talk about the other side: there are economic opportunities presented by a changing climate, specifically as they affect Idaho's business sectors.

On Thursday we will be hearing from panelists and speakers about the effects and cost of Idaho's increasing water temperature, drought and wildfires. Each of these has an effect on important Idaho economies including agriculture, ranching, recreation and tourism as well as an affect on the health of our citizens, old and young.

During the afternoon breakout sessions, participants will have the opportunity to tell their personal stories. Here in Pocatello there will be three sessions: The first is Forests, Recreation, Fish and Wildlife; the second is Agriculture and Rangeland; and the third will be about Health, Infrastructure and the Built Environment. Participants will form ways in which the private sector can collaborate to safeguard Idaho's traditional way of life.

Thursday lays the ground work for participant brainstorming and solutions which is slated for Friday. We will hear success stories from Idaho's industrial and entrepreneurial leaders. Participants will gain insights and learn about new business practices. The afternoon breakout session will allow time to discuss and discover solutions, build networks and share ideas that make sense for Idaho's communities and economy.

Yale University conducted a public opinion poll recently which showed that even though two thirds of Idahoans know the climate is changing, only one third talks about it. Part of the purpose of this summit is to open that door; let people from all areas of our economy realize that not only can we adapt and survive these changes, but we can thrive and prosper if we put our heads together, compare notes and plan ahead.

We expect this event will jump start that conversation creating a broad-based forum for exploring our economic challenges, adaptations and opportunities in the light of our changing climate. We will be exploring market-based solutions, showcasing successes, promoting optimism and innovation, including mitigation and adaptive solutions.

This is about learning what and where effects are occurring, understanding how Idahoans are building resiliency to these changes through problem-solving. Our goal is also to provide an opportunity for non-partisan respectful exchange of ideas focused on solutions that are consistent

with Idaho values and needs.

Any business, school, organization or individual who wants to participate can do so online by streaming the event from www.idahoclimatesummit.com. Entities that wish to lead their own design thinking workshops can sign up for training from Warm Springs Consulting on the "Facilitate" tab on the above website.

We realize this is a first step, a first conversation. We hope that participants will find practical innovative market-based solutions which can be taken back and tested. Statewide workshop results will be shared in a post-summit action report to be distributed in early 2018. We also hope to see the building of new collaborations and commitments as well as ongoing forums. We look forward to hearing stories of what worked, and what did not, next year.

Major sponsors of the event include the organizers listed above, as well as: Idaho State University, The Center for Ecological Research and Education, Boise State University, University of Idaho, Idaho Power, Idaho National Laboratory, Monsanto, Hewlett Packard, Idaho Conservation League, Idaho Department of Fish and Game, The Nature Conservancy, The Wildlife Society, Clif Bar, DL Evans Bank, Future Web Studio, Idaho Sierra Club, Idaho Water Resources Research Institute, Nez Perce Tribe, Northwest Climate Science Center, Potlatch Corporation, The Langdon Group, and the Upper Snake River Tribes, Stimson Lumber, YMCA, Hancock Forest Management, Trout Unlimited, Outdoor Industry Association, Idaho Association of Counties.

Idaho's changing climate is affecting our economy, our communities, our health, and our way of life. The changes we are experiencing pose significant risks, but also significant opportunities. Idahoans are better positioned for the future when engaging in constructive dialogues about market-based solutions. This summit brings together local Idaho businesses and community leaders who are envisioning practical and innovative ways to meet these challenges.

More information, a complete list of sponsors, and registration for the event, Safeguarding Idaho's Economy in a Changing Climate, can be found on-line at www.idahoclimatesummit.com.

Linda Engle of Pocatello is a member of the Portneuf Resource Council and co-chair of the Pocatello Chapter of Citizens' Climate Lobby. She has been a member of the Idaho State University faculty since 2004 and is currently a math instructor at the school.

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Idaho Climate Summit and other ISU events

By Bob Devine Nov 14, 2017



Bob Devine

The inaugural Idaho Climate Summit is at the ISU Pond Student Union Building this Thursday, beginning at 8:15 a.m. and runs through Friday at 3 p.m., entitled “Safeguarding Idaho’s Economy in a Changing Climate—{ /span} Our Water, Our Land, Our Health, Our Future.” Idaho business and community leaders from diverse sectors, including Idaho Power, Hewlett Packard, the American Lung Association, Sierra Club and more, will work side-by-side with conference participants to explore solutions for Idaho that mitigate or adapt to the effects of a changing climate. Morning keynote and panel discussions will be live-streamed from Boise State University for ISU participants to view, and then afternoon workshops will be held at the Pond Student Union. Keynote speaker Kate Gordon, senior adviser with Risky Business Project, will frame U.S. economic risks and opportunities, and emphasize impacts and ideas for Idaho’s business sectors. Participants will learn about new business practices, build collaborations and discover solutions that make sense for Idaho communities. For more information or to register, go to www.idahoclimatesummit.com.

After the conference, a free screening of “An Inconvenient Sequel: Truth to Power” will be featured Friday at 3:30 p.m. in the Bengal Theater. All are welcome to attend this sequel to Oscar winner “An Inconvenient Truth,” which takes a look 10 years later at the effects of climate change and how the devastating impacts can be counteracted by new technology and a movement of people inspired to minimize their impact on the planet. For trailer and more information, go to www.isucinema.com/inconvenient.

The School of Performing Arts at Idaho State University presents Dr. Seuss’ “The Cat in the Hat” on Friday and Saturday at 7:30 p.m. in the Bistline Theatre at the Stephens Performing Arts Center. This classic tale finds Sally and her brother at home on a rainy afternoon only to become acquainted with “the funniest, most mischievous cat that they have ever met.” Tickets cost \$10 for general admission or \$7 for children and ISU students and are available at the Stephens Center Box Office, online at www.isu.edu/tickets or call 282-3595. This production is appropriate for children of all ages.

The Idaho State-Civic Symphony Youth Orchestra will perform Friday at 7:30 p.m. in the Jensen Grand Hall at the Stephens Performing Arts Center. Admission is free for all. Come hear the talents of the Youth Orchestra, led by maestro Julie Sorensen. Performances include “Brandenburg Concerto No. 3” by Johann Sebastian Bach, “Farandole” by Georges Bizet and the “New World Symphony.” For more information, go to www.thesymphony.us.

David Archuleta is in concert on Saturday night at 7:30 p.m. in the Jensen Grand Hall at the Stephens Performing Arts Center. A runner up on “American Idol,” Archuleta’s first single “Crush” went to No. 2 on the Billboard Hot 100, won a Grammy for Best Male Country Vocal Performance, and he’s been performing ever since. Admission runs \$40 to \$45 and tickets can be purchased at www.idahoperformingartscenter.com.

Bob Devine is the coordinator for the Pocatello Film Society. If you would like your campus related information to Bob at devirobe@isu.edu.

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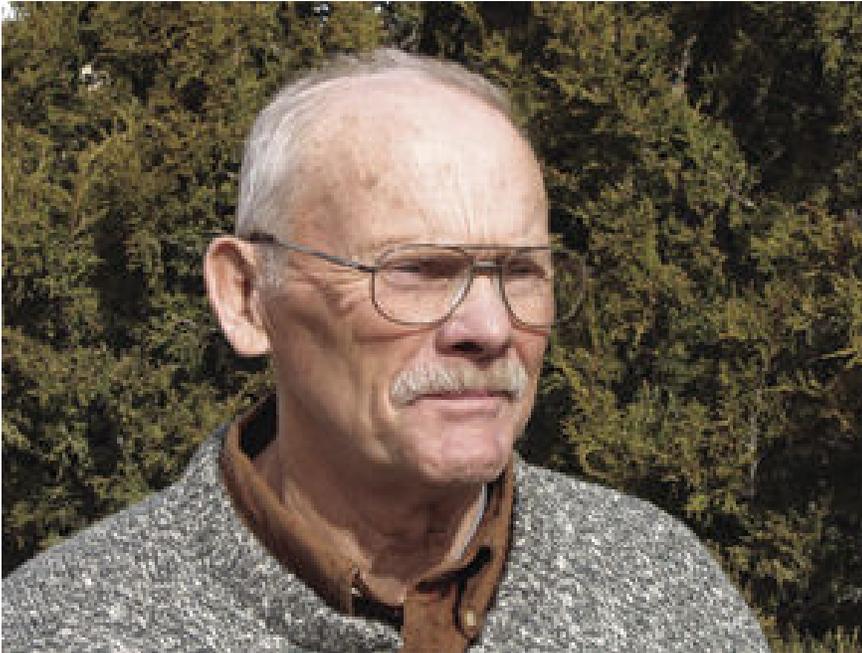
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Economic Opportunity — Idaho and the United States

By Mike Larkin Dec 3, 2017



The recent Economic Summit at Idaho State University in Pocatello was a real eye-opener on what industry is doing to prepare for a changing world. While our changing climate poses many economic risks to our businesses, health and recreation, like most challenges, it also presents many opportunities.

Some companies in Idaho, and around the U.S., realize that the use of fossil fuels is creating extreme weather and they are transitioning to new production methods and products that not only recognize this but increase their bottom line. They realize that productivity and future profits come to those that innovate and adapt to our new situation.

China and many other countries understand that times are changing. China has openly committed to producing only electric cars in 2019. They recognize that not only is our climate changing, but the result is that the burning of fossil fuels will become a thing of the past.

They have every intention of leading the world in the production and sale of electric cars and solar panels. Currently 27 percent of Germany's electricity comes from renewable sources, in addition, they have a better reputation than the United States for quality renewable products.

Effectively every other modern society in the world is reducing their dependence on fossil fuels; the United States is the sole exception.

Out of the 154 countries that track their use of clean energy, 114 are ahead of the United States in their use of renewable energy. In other words only the United States includes itself with 40 undeveloped countries that create 14 percent or less of their electricity from renewable energy.

Our president, many members in Congress, and our own Idaho Legislature, appear to believe that we can create a prosperous economy by holding on to the past. They seem to think if we don't talk about climate change and don't prepare for climate change, it won't happen.

At the summit, many employees from companies around Idaho described ways in which their company is adapting to our current climate reality. Scott Flynn, founder of Flynn Homes, talked about how they now build homes that produce all their own energy, with a return on investment in four years, and after that, homeowners have no energy bills.

While other states are updating their building codes to require energy efficiency, Idaho hangs onto their building codes from the past, allowing builders to construct homes that still require expensive amounts of heating and cooling. Lisa Cooper, President of Figure 8 Investments, said large investors are now targeting companies that are becoming energy independent.

These investors know that future high returns will come from companies that generate their own electricity and ones that produce renewable energy products. Conversely, they are shying away from investments in fossil fuel companies. More than half of the Fortune 500 companies in the United States are transitioning to renewable energy.

Rich Berger, from Clif Bar, talked about how their Twin Falls production facility is reducing their energy usage, installing solar panels and transitioning to organic food suppliers while increasing their profits.

Erik Gonring, discussed how the J.R. Simplot Company, is reducing their energy demand, as well as their need for chemicals and fertilizer, all the while improving their profit margin.

David Eichberg, from Hewlett Packard, talked about how they are reducing electricity requirements at every step of their manufacturing and distribution process.

These companies realize if they want to stay competitive in a worldwide market and continue to attract new investors, they must become as energy independent as possible and show they are environmentally responsible.

In the afternoon at the summit, participants broke out into three different work sessions, (1) Forests, Recreation, Fish and Wildlife (2) Health, Quality of Life and Infrastructure and (3) Agriculture and Rangeland. Participants brainstormed how we can best adapt to a changing climate.

Group 1 — Forests, Recreation, Fish and Wildlife: This group considered the link between climate change and Idaho's wildlife, scenic vistas and abundant forests. They examined how the economic loss of these resources is frequently overlooked or ignored in favor of development. The discussion included ways in which these true costs can be captured. They also discussed steps landowners and managers can take to increase the resiliency of wildlife habitat as weather becomes more extreme. Examples include using beavers to increase water retention on the landscape, heal damaged floodplains, re-create stream meanders and cool water temperatures with vegetation to increase fish survival.

Group 2 — Health, Quality of Life, and Infrastructure focused on the true cost of burning fossil fuels when the cost of increased medical care due to respiratory ailments, such as asthma, are factored in. They discussed the fact that the formula used by power companies to determine the cost of electricity from different sources is not consistent. Currently the cost to society in terms of health, air and water quality, which we pay for either directly or indirectly, are ignored when it comes to burning carbon-based fuels.

Group 3 — Agriculture and Rangelands, focused on water, realizing that hotter and drier summers and earlier snowmelt are going to lead to increasing competition for water, and decreasing levels of groundwater. Cloud seeding and recharging underground aquifers will be a constant future challenge; moving forward we will need to develop improved ways to use wintertime stream flows to recharge our aquifers.

While the rest of the world and many U.S. companies are adapting to a new paradigm of energy generation and usage, our Idaho Legislature and the U.S. Congress have chosen not to innovate, but to keep to a traditional, and now fiscally untenable path.

The Idaho Legislature will not even use the words climate change, and discourage K-12 teachers from telling students about the reality and impacts of a changing climate.

Our president and many members of Congress would like to continue to use coal, the most polluting of fossil fuels, to supply our electricity needs. They also intend to start drilling for oil and gas in the Arctic National Wildlife Refuge, one of the last pristine places on the planet.

The U.S. can do better than this; historically we are the innovation leaders of the world. We can continue to be economically competitive while maintaining our quality of life. We need to recognize that clinging to the old carries serious economic risk and there are many opportunities in this new world.

Contact your senator and representative, and tell them climate change is here, that we need to not only reduce the burning of fossil fuels, we need to adapt and innovate if we want to remain economically competitive in a rapidly changing world.

Mike Larkin of Pocatello has worked in natural resource management for over 30 years and has degrees from Utah State University and the University of Idaho.

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Thu., Nov. 16, 2017, 10:09 a.m.

Idaho businesses, industry, agencies, groups come together at 'Climate Summit'



John Bernardo of Idaho Power speaks at Boise State University on Thursday, Nov. 16, 2017, as part of a statewide climate summit entitled, "Safeguarding Idaho's Economy in a Changing Climate." (Betsy Z. Russell)

Idaho's economy already is being seriously impacted by climate change, participants in a statewide, two-day "climate summit" said this morning, from increased agricultural pests and disease, to longer, smokier wildfire seasons, to spreading invasive species. And regardless of the causes, presenters said, it's time for businesses, agencies, universities, tribes and more to come together to identify solutions.

“This is Idaho – we know how to work together and we know how to solve problems,” said Heather Kimmel of the American Lung Association. “We can identify solutions that will protect Idaho’s economy, Idaho’s water, Idaho’s land, Idaho’s health, and Idaho’s future for generations to come.”

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Asked to identify the impacts they’ve personally seen and dealt with so far, several participants spoke out. Juliet Marshall, a U of I professor in Aberdeen, said she works in production agriculture. “When I first came here 25 years ago, we really didn’t have to worry a lot about diseases,” she said. “Over time, we’ve seen a complete shift in the disease pressure and the insect pressure in commercial agriculture. We’re looking at increases of two to three times in pesticide applications.”

Gregg Servheen of the Idaho Department of Fish and Game said warmer temperatures have led to better over-winter survival for some game species, “which our sportsmen very much like, so that’s a good thing.” But it’s also led to more depredation problems with game herds impacting farmers and ranchers, and increased wildfires have increasingly started to shut hunters out of the areas where they’d go to hunt that game.

“Wildfire, climate and precipitation are connected,” presenter Bryant Kuechle of the Langdon Group told the gathering, which has drawn 250 participants at the Boise location, in addition to 70 in Moscow, 50 in Pocatello, 20 in Ashton and more online. “The western U.S. wildfire season increased from five months in the 1970s to seven months today.”

Western states are seeing four times as many major wildfires today as they did in 1970, he said, and six times as much forest burned. The number of acres burned doubled from 1984 to 2015.

Idaho also is seeing declines in spring runoff, with the largest declines below 3,000 feet elevation, and stream gauges show a 15 percent drop in cumulative annual streamflows over the last half-century. That impacts fisheries, recreation, agriculture and more.

“To us, very much, climate change is real,” said John Bernardo of Idaho Power. The big southern Idaho utility is addressing it with efforts including cloud seeding to increase precipitation; vegetation management around remote power poles to keep them from burning up in wildfires; and pollution-reduction programs aimed at lowering the rising temperatures in the Snake River.

Mark Solomon, associate director of the Idaho Water Resources Research Institute at the University of Idaho, said, “We can be the frog in the frying pan, where we get out before we get fried.”

Kate Gordon, keynote speaker, senior advisor at the Paulson Institute and founding executive director of the Risky Business Project, which addresses risks from climate change, said, “This is a profoundly local issue.”

Idaho has opportunities, she said, but, “It does take operational change within the private sector, it does take policy change in the public sector, and it does take upfront investment.”

The world is moving toward “de-carbonization,” she said, offering examples including China’s pledge to manufacture only electric vehicles after 2019. Shifting to renewable energy sources can substitute capital for fuel, she said. “You build the plant to tap into the thing, and then you never pay for fuel again. Which means that your fuel savings eclipse your capital.”

“It’s a moving market that we either take advantage of, or we risk not taking advantage of,” said Gordon, who noted that her background isn’t in science – it’s in economic development. “Let’s not wait ‘til tomorrow, let’s do this.”

POSTED NOV. 16, 2017, 10:09 A.M.

in: climate change, Climate summit, Idaho power

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IDAHO

Taking opportunities in a changing climate

Fri., Nov. 17, 2017, 7:46 a.m.

By Taylor Nadauld

Moscow–Pullman Daily News



Idaho and the Palouse face a host of climate issues both today and in the future. The question, said Kate Gordon, senior adviser at the Paulson Institute, is whether Idaho will capture the economic opportunities the changing climate brings its way.

Local business owners, entrepreneurs and researchers discussed that question Thursday at the two-day Idaho Climate Summit. Several speakers said they are focusing their efforts on wildfire prevention, creek restoration, coldwater replacement and other mitigation techniques to tackle Idaho's major environmental issues.

Titled "Safeguarding Idaho's Economy in a Changing Climate," the statewide summit was held at Boise State University and broadcast live to locations across the state, including the fourth floor of the Idaho Commons at the University of

Idaho in Moscow.

“The fact that the energy system up here (in Idaho) is pretty clean is actually a big economic opportunity,” Gordon said in her keynote address from Boise.

Referring to maps showing the effects of global warming on regions of the U.S., Gordon said she had to be honest: The effects of climate change on the Northwest are not as bad as some parts of the country.

But that could be a detriment to the region in the future, Moscow Citizen’s Climate Lobby member and panelist Mary Dupree pointed out during an afternoon breakout panel discussion focused on health and quality of life.

Dupree predicted there will be migrations of people looking to live in the Northwest as the rest of the country deals with climate change, which could include increases in bacterial diseases due to increased heat, impacts to seafood in conjunction with ocean acidification and increased air pollution, she added.

The panelists questioned whether a public health system or an adequate water supply exists that could support that additional population.

“We’re not really as much of an island as we think we are,” Dupree said.

For some speakers, the struggle with tackling the effects of climate change has been using such terminology in the first place.

Steve Pew, environmental health director at the Southeastern Idaho Public Health District, described his struggle using the term “climate change” in southern Idaho and recalled tension he witnessed when a colleague attempted to discuss the topic. Pew said he now uses the term “extreme weather” to describe the environmental issues Idaho faces.

Later, during the health and quality of life panel discussion, panelist Ed Marugg, of the Idaho Department of Health District 2 in Lewiston, said he was the colleague Pew mentioned. Marugg said he has witnessed the same aversion to the topic throughout the state of Idaho.

The comments bothered Dupree, who said the terms have two different meanings.

For Josiah Pinkham, a member of the Nez Perce Tribe and the Cultural Resources and Climate Change Task Force, part of the answer Idaho’s environmental issues lies in both bringing more indigenous scientists to the environmental discussion table and in people becoming personally connected with nature.

“One of the biggest dilemmas that humanity faces is awareness of and action on the need for a sensitive relationship with the environment,” Pinkham said.

The summit will conclude today.

PUBLISHED: NOV. 17, 2017, 7:46 A.M.

Tags: business, idaho, Idaho Climate Summit



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Thu., Nov. 16, 2017, 10:09 a.m.

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POSTED NOV. 16, 2017, 10:09 A.M.

in: climate change, Climate summit, Idaho power

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Ag, economy to be emphasized in Idaho climate conference

An upcoming conference about climate change will to be hosted at Boise State University, Idaho State University and University of Idaho.

John O'Connell • Capital Press

Published on October 16, 2017 11:49AM

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Colden Baxter and Linda Engle, both of whom teach at Idaho State University, stand outside the ISU Pond Student Union Building, one of three locations statewide where a climate conference they're helping to organize will be hosted.

BOISE — Idaho's agricultural and business leaders will offer their insight about climate change and how to cope with it during a conference scheduled for Nov. 16 and 17 at the state's three public universities.

Safeguarding Idaho's Economy in a Changing Climate — Our Water, Our Land, Our Health, Our Future will feature speakers at Boise State University, whose presentations will be streamed live at the University of Idaho in Moscow and Idaho State University in Pocatello. Break-out sessions for participants — including one on management of agriculture

and rangeland in a changing climate — will be hosted during both afternoons at all three venues.

Several speakers come from agricultural backgrounds. Lynn Tominaga, executive director of Idaho Ground Water Appropriators Inc., will participate in a panel discussion on planning for changes in water availability and quality and the timing and type of precipitation.

Karen Launchbaugh, director of the UI Rangeland Center, will serve on a panel discussing the true cost of wildfire. Erik Gonring, of Simplot Plant Sciences, and Rich Berger, with Clif Bar, will serve on a panel devoted to innovative solutions by Idaho's industrial leaders.

Scott Lowe, an economist and associate dean of BSU's graduate college, has researched how Idaho farmers are shifting toward rotations with more drought-tolerant crops as the Western climate becomes more variable. Lowe, who has promoted the conference to BSU students, believes emphasizing thoughts and possible solutions offered by businessmen who "deal with climate change on a daily basis" is the "natural next step" in the dialogue.

"Often you hear from the academics and the scientists," Lowe said. "Regardless of what they're saying, I think it's important to have a dialogue where the voices are from industry and businesses."

The cost of attending the conference is \$29, and anyone interested in attending may register online at www.idahoclimatesummit.com.

Organizers and sponsors include the Sierra Club, Monsanto, American Lung Association, Idaho Power, Hewlett-Packard, the state universities, DL Evans Bank, the Idaho Department of Fish and Game, Idaho National Laboratory, Water Resources Research Institute, Upper Snake River Tribes, Nez Perce Tribe, Northwest Climate Science Center, Potlatch Corp. and Langdon Group. Organizers anticipate the conference will become an annual event.

Linda Engle, an ISU math instructor involved in organizing the Pocatello conference, said speakers and participants will focus on the problem during the first day, and offer their suggested solutions and coping strategies on the second day. Boise-based Warm Springs Consulting will produce a booklet documenting the discussions.

"The conversation hasn't begun as to, 'How do we adapt to this?'" Engle said. "I have children, and I want them to have a world in which crops still grow, and they can still enjoy the outdoors."

ISU stream ecologist Colden Baxter, another Pocatello conference organizer, has studied how climate affects Idaho's water resources. He's found evidence that native species may be more resilient to climate change than previously thought, meaning officials should have a good opportunity to find good solutions.

"I grew up farming myself, and I know farmers are close to climate, and they have to be responding to it and adapting all the time," Baxter said.

Locals participate in Idaho climate summit

Julia Tellman TVN Staff Nov 22, 2017

Chris Valiante attended a conference in Boise on climate change because his livelihood depends on it.

Valiante, the owner of Driggs telemark binding company 22 Designs, decided to make the trek to Boise last weekend to catch up on the latest information and meet others who are working on solutions.

Safeguarding Idaho's Economy in a Changing Climate brought business and corporation owners, public officials, and nonprofit directors from across the state for a two-day conference. More than 300 people attended and hundreds more participated in live-streaming events in Ashton, Pocatello, and Moscow.

Valiante said that 22 Designs is a member of the Business Climate Leaders, a branch of the Citizens' Climate Lobby that is recruiting businesses to endorse policy proposals for action on climate change.

"As a business that relies 100 percent on products for skiing, climate change is forefront in our minds," Valiante said "We realize long term that it's something that needs action to change our course."

22 Designs sells bindings all over the world, so low snow years in New England or the Alps affects the bottom line.

The small company does all of its assembly in Driggs and purchases carbon offsets for its energy usage, but it sources materials from vendors around the country and has little control over their energy consumption.

"More and more businesses in the ski industry are becoming more proactive on trying to organize within the industry to take action at the policy level," Valiante said. "I think the solution of reducing carbon dioxide isn't going to happen with individual businesses here and there. We need economy-wide action."

The first day of the conference focused on current circumstances, including climate change's detrimental impact on water levels and Idaho's intensified wildfire seasons. In a state that is enriched by money from outdoor recreation, these disruptions are expensive as well as alarming from a conservation standpoint.

"Our future is going to be closely tied to keeping a cool and stable climate," Valiante said.

Valiante said the following summit sessions were more upbeat. He learned about steps businesses can take to be more energy efficient, and about new opportunities that are arising from the world's new focus on renewable and clean energy.

"I'd be interested to try and reach out to businesses in our corner of the state and see how much support we can get," he said.

County Commissioner Cindy Riegel also attended the conference as a representative of Teton County.

She called it "refreshing, because there was a big emphasis on solutions."

"They highlighted Idaho businesses, agencies, local governments and tribes that are actually taking concrete actions to address and adapt to climate change for human health, environmental health and economic reasons," she added.

As a follow-up step to the conference, Riegel offered to help organize a local summit on the county level.

"We can look more closely at how climate change is directly impacting peoples' lives and livelihoods and work collaboratively to implement local

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Julia Tellman

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NEWS - CITYDESK

NOVEMBER 15, 2017

Idaho Climate Summit

Safeguarding Idaho's Economy in a Changing Climate

By Lex Nelson



Over two days, businesses and environmental activists from across Idaho will come together at Gem State public universities and the Henry's Fork Foundation Office to map out the future of the Gem State. The Idaho Climate Summit will attempt to reconcile environmental concerns and economic growth, searching for "market-based solutions and innovations to the realities of how a changing climate is impacting our water, our land, our health and our future." Representatives from Idaho Power, HP, the Sierra Club, Monsanto and more will be there to brainstorm. If you have an interest in the future of the state and the planet, this summit is the place to be.

Nov. 16, 9:30 a.m.-7:30 p.m. and Nov. 17, 8:30 a.m.-3:30 p.m., \$99. Boise State University, Boise State Student Union, 1910 University Drive, 208-426-5800, idahoclimate summit.com. Check online for dates and times at other locations.

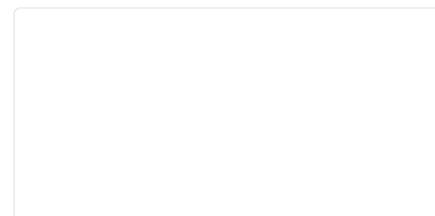
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NEWS

CLIMATE CHANGE SUMMIT TO BE HELD AT ISU

POSTED BY: MADELEINE COLES - CO-EDITOR IN CHIEF & NEWS EDITOR
NOVEMBER 8, 2017



Madeleine Coles

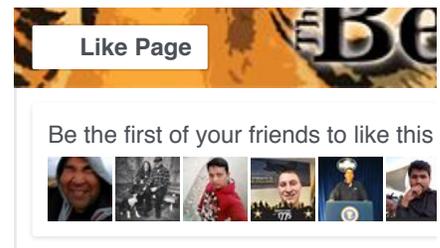
News Editor

According to a public opinion poll conducted by Yale University last year, two thirds of Idahoans believe the climate is changing, but only one third discuss it, even

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occasionally. To help combat this, Idaho businesses are coming together to host a summit to be held all throughout Idaho entitled Safeguarding Idaho's Economy in a Changing Climate.

The two day summit will explore economic opportunities presented by climate change as well as ways to combat the effects of increasing water temperature, drought, wildfires and other issues presented by the changing climate.

“Part of the purpose of this summit is to...let people from all areas of our economy realize that not only can we adapt and survive these changes,” said Linda Engle, a professor at ISU, “but we can thrive and prosper if we put our heads together, compare notes and plan ahead.”

Organizers of the summit, which will be held simultaneously in Boise, Moscow, Ashton and Pocatello, include the American Lung Association, the Idaho Chapter of the Wildlife Society, the Nature Conservancy, Idaho Chapter of American Fisheries Society, and the Society of American Foresters. Each venue will feature speakers from local business and community leaders and opportunities for other participants to share their personal stories and ideas.

“We hope that participants will find practical innovative market-based solutions which can be taken back and tested,” Engle said. “We also hope to see the building of new collaborations and commitments as well as ongoing forums.”

The keynote speaker will be Kate Gordon, a regular contributor to the *Wall Street Journal* and a Senior Advisor at the Paulson Institute. Her speech, titled *From Risk to Return: Challenges and Opportunities for Idaho in Adapting to a Changing Climate*, will discuss both the risks and opportunities presented to Idaho's businesses due to climate change.

Main panel sessions held in every venue will discuss the economic cost of climate change, an overview of risks and

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impacts, drought and increased water temperature, wildfire, health and quality of life, innovative solutions by industrial leaders and new ventures and economic opportunities. I“The goal of this summit is to jump-start the conversation creating a broad-based forum for exploring our economic challenges, adaptations and opportunities in the light of our changing climate,” Engle said. “This is about learning what and where effects are occurring and understanding how Idahoans are building resilience to these changes through problem-solving.”

This is the first time a summit like this has been held in Idaho, however Engle said there is hope that it will become an annual event.

“We look forward to hearing stories of what worked and what did not, next year,” she said.

The summit will be held Nov. 16 and 17 in the Pond Student Union Building and participants can register at www.idahoclimatesummit.com.

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Idaho Climate Change Summit Highlights Wildfire, Wildlife And Water

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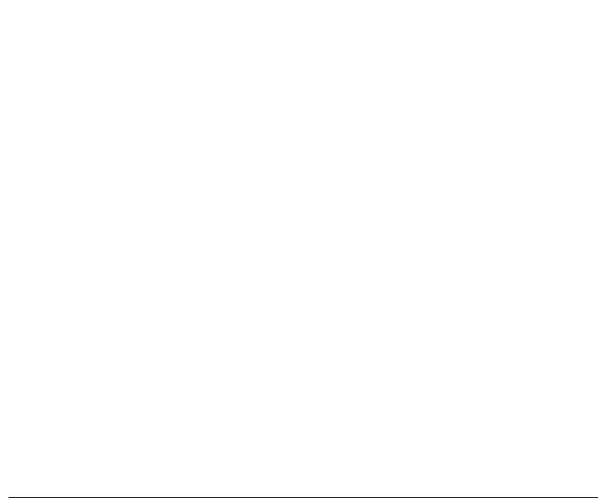
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(http://mediad.publicbroadcasting.net/p/idaho/files/styles/x_large/public/201711/ap_wildfire_ted_warren.jpg)

The Blackerby Fire burns along a ridge after midnight Saturday, Aug. 13, 2005 near Grangeville, Idaho.

TED S. WARREN / AP IMAGES



The first Idaho Climate Summit wraps up Friday in Boise. Keynote speaker Kate Gordon set the tone for the two-day event Thursday morning, making an economic case for Idahoans to heed the signs of climate change.



Listen

Click 'play' to hear the audio version of this story.

Gordon is a senior advisor with the Paulson Institute, a think tank that focuses on sustainable growth.

"Talking about climate change in terms of U.S. averages is like saying, 'Well my feet are in the oven and my head is in the fridge. So I'm average, I'm good!'" says Gordon. "It doesn't compute."

She says rather than looking at national trends, it's best to look at Idaho-specific risks.

Idaho Fish and Game Wildlife Program Coordinator Gregg Servheen spoke to some of the risks that come with a warming climate, including the interaction between wildfire and wildlife. Servheen says warmer winters might be good for elk, deer and other big game that have a better chance of surviving a more mild season. That sounds like a good thing, but there are some drawbacks:

"Land managers are having to close areas because of fire risk," says Servheen. "And so that closes out our sportsmen. So while on one level we have opportunity for them for more big game animals, on another level they're potentially being closed out because of fires."

Servheen says variability is one of the biggest problems that comes with climate change, making wildlife management less predictable.

Support for environmental reporting on Boise State Public Radio comes in part from the Larry & Pam Cardinale Preservation Fund.

Find reporter Frankie Barnhill on Twitter @FABarnhill (<https://twitter.com/FABarnhill>)

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Idaho Climate Summit is a conversation about Idaho's changing climate to explore solutions for safeguarding Idaho's economy, health, landscape and lifestyle.

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Idaho Climate Summit @IDClimateSummit · Nov 22
"As a business that relies 100 percent on products for skiing, climate change is forefront in our minds," Valiante said "We realize long term that it's something that needs action to change our course."

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Holly Yeager @HollyHhenning08 · Nov 17
[@IDClimateSummit](#) great turnout in Moscow for the Idaho Climate Summit.



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Aimee Christensen @AimeeGlobal · Nov 17

What a great set of speakers I got to moderate! Thank you @IDClimateSummit team! #resilience #climate prosperity @SunValleyInst



Haley Falconer @haleyrfalconer

Excited about this panel moderated by @AimeeGlobal. Scott Flynn @flynnerhomes, Leif Elgethun Idaho Clean Energy, Amy Lientz, @INL, Lisa Cooper, Figure 8 Investment Strategies...



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Nate Hurst @nathanehurst · Nov 17

.@HP, @ClifBar and @SimplotCompany discuss how to effectively engage in climate action on a local level that results in global impact @IDClimateSummit



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“While targets are set at a global level, it comes down to local action” - David Eichberg, HP @HPSustainable @HP #IDClimateSummit

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Leif Elgethun @EnergyLeif · Nov 17

Happy to share some of the innovation happening in #idaho to reduce climate change risks. @IDClimateSummit @RetroLuxApp @

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Leif Elgethun makes case for businesses to get involved with policy making #idclimatesummit

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HP Sustainability @HPSustainable · Nov 17

.@MangoMaterials #startup is merging #sustainability & innovation via its unique biodegradable fabric hp.tl/6014D8zyK





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"Climate change is a big deal for investors, pressuring companies to consider sustainability, responsibility and impact." Lisa Cooper, Figure 8 Investment Strategies #IDClimateSummit



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"Capital markets are moving forward toward supporting efficiency and sustainability efforts whether or not Idaho leaders are" - Lisa Cooper, Figure 8 Investment Strategies



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Did you know @HP has made a commitment to 100% #RenewableEnergy?
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slfisher @slfisher · Nov 17

HP is now using 40-70% recycled plastic in its 3 billion printer cartridges, which uses 1/3 less carbon footprint and uses 1/2 the fossil fuels. #idclimatesummit



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Haley Falconer @haleyrfalconer · Nov 17

Important message from @SimplotCompany & @MicronTech abt data-driven goal setting (vs arbitrary goals that might seem sexy but don't have a path to meet).

@CityOfBoise is taking this approach regarding our #energy future and #RenewableEnergy planning
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Holly R. Prendeville @HRPrendeville · Nov 17

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Rialin Flores @RialinFlores · Nov 17

INL has largest LEED Platinum certified building in Idaho. #idclimatesummit

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