

THIS WAY TO SUSTAINABILITY CONFERENCE 2019 |

REGENERATING ECOLOGICAL SYSTEMS:

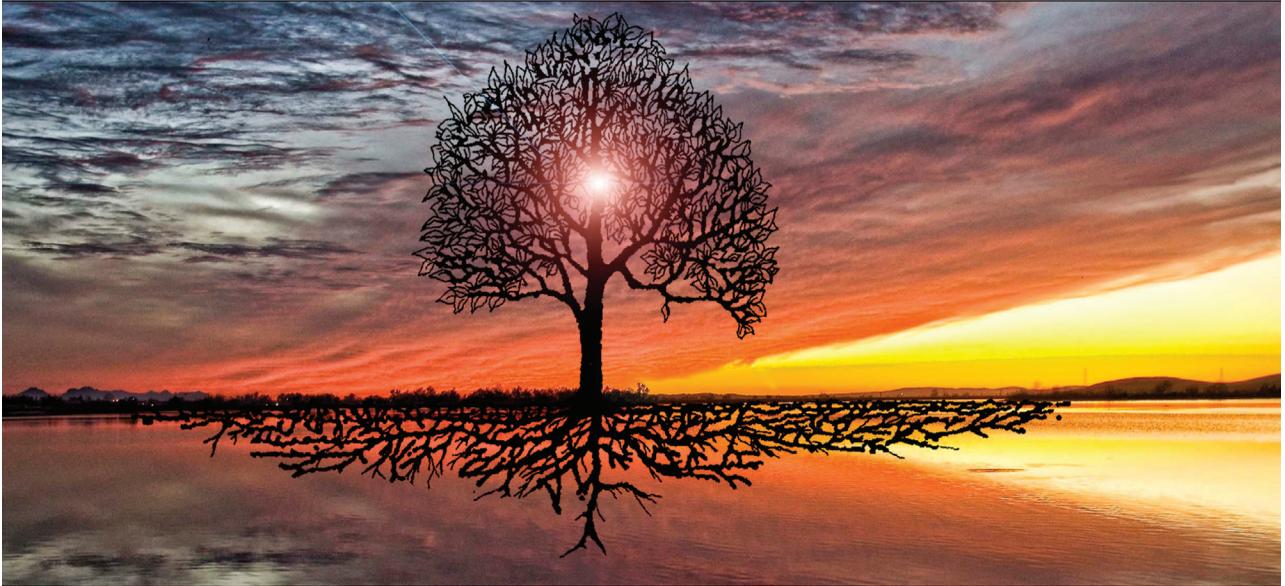


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IMPACTS & SOLUTIONS TO CLIMATE CRISIS

THURSDAY, MARCH 28—FRIDAY, MARCH 29

THIS YEARS TOPICS

- Water Resources
- Climate Impacts and Solutions
- Food and Agriculture
- Lifestyles, Health and Wellness
- Energy and the Environment
- Infrastructure and Transportation
- Science and Technology
- Student Engagement
- Community Partnerships and Action
- Education for Resilience
- Laws, Policies and Business
- Population

WELCOME TO CALIFORNIA STATE UNIVERSITY, CHICO!



Cindy Daley
*Director of the Regenerative
Agriculture Initiative*

The Regenerative Agriculture Initiative of CSU, Chico would like to welcome you to the 14th annual This Way to Sustainability Conference. This year's theme, "Regenerating Ecological Systems: Impacts & Solutions to Climate Crisis," recognizes that climate change is an ever impending crisis and we must make active changes to fight it. This conference creates a space to explore innovative ideas and sustainable practices, to give us the tools we all need to provide our next generations with a future. We encourage you to take advantage of all this conference has to offer. You can do this by attending various sessions, meeting the speakers, speaking with other attendees, and checking out our tabling fair that's being held in Colusa Hall. During the next two days, we will have the chance to explore numerous forms of sustainability with people from various backgrounds in hopes that we can walk away with new perspectives, connections, and plans to enact change. We look forward to hearing the different ideas and thoughts that our attendees bring forward, so that we can all work together to create real and feasible solutions to this climate crisis.

LEGEND



Water Resources



Energy and the
Environment



Community Partnerships
and Action



Climate Impacts



Infrastructure and
Transportation



Educating



Food and Agriculture



Science & Technology



Laws, Policy
and Business



Lifestyles, Health and
Wellness



Student Engagement



Keynote Speakers



Population



Workshop

REGISTRATION AND CONTINENTAL BREAKFAST

All participants must register for the conference before attending any conference sessions or events.

THURSDAY AND FRIDAY 8-2PM

Bell Memorial Union (BMU) Lobby and Auditorium

All participants must register for the conference before attending any conference sessions or events. Registration will be open until 2 pm both days. You are invited to share a continental breakfast with us in the Bell Memorial Union Auditorium. Bring your reusables and be entered into our Caught You Being Green raffles!

Recording and photography in all sessions is limited to conference staff only. Please be considerate and turn phones and recording devices off during sessions. Thank you!

THURSDAY, MARCH 28 AT A GLANCE • CONFERENCE SCHEDULE

| | | |
|--------------|--|-------------------------|
| 8–2 PM | Registration | BMU Main Lobby |
| 8–10 AM | Continental Breakfast | BMU Auditorium |
| 8–10 AM | Greenie Displays & Voting | BMU Auditorium |
| 9–9:45 PM | Concurrent Sessions | BMU Breakout Rooms |
| 10–2 PM | Display & Tabling Event | Colusa Hall 100 |
| 10–10:30 AM | Greenie Award Announcements | BMU Auditorium |
| 10–10:45 AM | Concurrent Sessions | BMU Breakout Rooms |
| 11–12 PM | Keynote Speaker: Thomas Goreau | BMU Auditorium |
| 12–1 PM | Lunch | BMU Auditorium |
| 1:15–2 PM | Concurrent Sessions | BMU Breakout Rooms |
| 2:15–3 PM | Concurrent Sessions | BMU Breakout Rooms |
| 3:30–5 PM | Keynote Speaker: Wenonah Hauter | BMU Auditorium |
| 5:30–8:30 PM | Private Speaker Reception | Private – RSVP Required |

FRIDAY, MARCH 29 AT A GLANCE • CONFERENCE SCHEDULE

| | | |
|---------------|---|--------------------|
| 8–2 PM | Registration | BMU Main Lobby |
| 8–10 AM | Continental Breakfast | BMU Auditorium |
| 9–9:45 AM | Keynote Speaker: Larry Kopald | BMU Auditorium |
| 10–10:45 AM | Concurrent Sessions | BMU Breakout Rooms |
| 10–11:45 AM | Green Career Panel | Colusa Hall 100 |
| 11–12:30 AM | Featured Film: <i>Before the Flood</i> | BMU 203 |
| 11–11:45 AM | Concurrent Sessions | BMU Breakout Rooms |
| 11:45–1:00 PM | Lunch | BMU Auditorium |
| 1:15–2:00 PM | Keynote Speaker: Alice Julier | BMU Auditorium |
| 2:15–3:00 PM | Concurrent Sessions | BMU Breakout Rooms |
| 3:15–5:00 PM | Keynote Speakers: Nirvan Mullick & Audrey Denney | BMU Auditorium |

SPOTLIGHT ON NEW TOPIC

REGENERATIVE AGRICULTURE

The Regenerative Agriculture Initiative (RAI) aims to investigate, develop, demonstrate, and educate about comprehensive, regenerative practices that both restore and enhance the resiliency of living systems. As soil loss, degradation, and changing climates threaten our natural and agriculture resources, we must transform the way we farm. California State University, Chico is leveraging our hands-on educational programs, applied research, and industry partnerships to investigate, develop, and disseminate this important and progressive form of agricultural production. We want to empower current and future agricultural leaders to help reduce greenhouse gasses, restore soil resiliency, increase the sustainability of farms and ranches, and addresses food and water insecurity.

SPECIAL EVENTS

THURSDAY 8-10AM



Greenie Awards

North State K-12 and CSU Higher Education Student Groups

BMU
Auditorium

With sponsorship by the Rawlins Endowment for Environmental Literacy, through our Greenie Awards we will recognize student groups in their successful efforts of working toward a sustainable future on **Thursday, March 28th from 8:00-10:00 am in the Bell Memorial Union Auditorium** where participants will vote for the winning group projects.

Awards will be presented following tabling in the BMU Auditorium.

Be sure to pick up your wooden tokens to vote from registration!

BOTH DAYS 8AM-2PM

Scavenger Hunt

BMU

Looking for something to do while you are waiting for your next presentation? Join our Rock Scavenger Hunt! Search throughout the open spaces of the BMU for hidden painted rocks. Once you find one, bring it by our raffle booth located next to the registration to get a prize!

Limited to 2 prizes per conference participant

THURSDAY 10AM-2PM

CLSA 100

Display and Tabling Event

Fun, informational, and interactive opportunity to learn about different sustainability oriented organizations from throughout Northern California. Stop by Colusa Hall from 10:00-2:00pm to get a chance to meet the people that are involved with these programs!



BMU
Auditorium



Thomas Goreau

BioGeoTherapy: Reversing Climate Change by Regenerating Land and Ocean Ecosystems

Thomas J.F. Goreau, a biogeochemist, was educated in Jamaican schools and holds degrees from MIT, Caltech, and Harvard. President and founder of The Global Coral Reef Alliance, he has dived on coral reefs across the Caribbean, Pacific Ocean, Indian Ocean, and South-East Asia for more than 60 years. He has published more than 150 papers and written and edited books on scientific photography, marine ecosystem restoration, soil fertility restoration and climate stabilization. He is co-inventor of the HotSpot method for predicting coral bleaching from satellite data and of the Biorock method for regenerating marine ecosystems and eroding coastlines.

THURSDAY 12–1PM



BMU
Auditorium

Lunch

Today's lunch will include a Pasta Bar with options for all! It is first come, first served so make sure to arrive at the beginning of the hour!

Other Lunch Options:

Participants may choose to stay in the BMU and choose from the variety of food options available in the BMU Food Court, or visit one of the many downtown restaurants in Chico. Pick up a downtown guide at registration to see available options. Please plan to return to the conference in time for the 1:15 Concurrent Sessions.

THURSDAY 3:30–5PM



BMU
Auditorium



Wenonah Hauter

An Existential Threat Requires Unprecedented Action

Wenonah Hauter is an activist, author and progressive policy advocate. She is the founder and executive director of Food & Water Watch, an organization that has fundamentally transformed the national debate about hydraulic fracturing, energy and the environment. Wenonah has three decades of experience campaigning and writing on food, water, energy and environmental issues. She has played leading roles in successful campaigns to ban fracking in New York, label genetically modified foods, protect public water systems from privatization and promote renewable energy.

*Wenonah Hauter is also the author of Foodopoly

Book signing to follow



BMU
Auditorium



Larry Kopald

How managing our soil can help us address climate change

A committed environmentalist, in 2013 he co-founded The Carbon Underground, an organization focused on sequestering carbon in our soil to improve both the climate and food security. By combining science and high-level business experience The Carbon Underground works with corporations, governments, the United Nations, the Vatican, and groups representing millions of farmers around the world. Larry is currently a Senior Fellow at USC's Marshall School of Business in the area of Social Entrepreneurism, and served on the White House Panel on Social Innovation under President Obama.

FRIDAY 10–11:45AM



CLSA 100

Green Career Panel: Chico State Alums

Interested in pursuing a green career once you graduate from college? Join us for a panel discussion featuring a number of CSU, Chico alums who have been working in sustainability in the private sector and in government since graduating. Come hear their stories and get insider tips on pursuing a career in the diverse field of sustainability professionals! All of our panelists graduated from Chico State in the past ten years – with degrees in a range of disciplines – and all were involved in campus student sustainability programs during their time here. These people have gone on to become young leaders in their fields, working hard to advance sustainability in their communities, regions and the world.

FRIDAY 11–12:30PM



BMU 203



Feature Film

Join us in our viewing of Before the Flood as actor Leonardo DiCaprio meets with scientists, activists and world leaders to discuss the dangers of climate change and possible solutions.

FRIDAY 12–1PM



BMU
Auditorium

Lunch

Today's lunch will include a Taco Bar with options for all! It is first come, first served so make sure to arrive at the beginning of the hour!



BMU Auditorium



Alice Julier

With and Against the Grain: Bread in the Late Anthropocene

Grains play a major part in developing regenerative systems, particularly in the search for regionally-focused and perennial agriculture. While large companies like Patagonia and Annie’s Homegrown have made strides in supporting product development using these grains, their incorporation into local cuisine and food production is regionally specific and requires more concentrated energies, economic support, and cultural reinforcing. Using oral histories of immigrant bread and baking, agricultural asset mapping of food sheds, culinary tourism, and network development with farmers and bakers, I explore how we aim for a regenerative culture of food in the Pittsburgh region.



BMU Auditorium



Audrey Denney

Bring it all Home: North State Strong

Climate change is already ravaging our homes. In 2018, the Carr and Camp Fires devastated communities in Northern California, but from the ashes emerged an uprising of hope. Using story, song and cinema, speakers and performers in the Closing Plenary will carry the audience on an emotional and inspirational journey from climate tragedy to climate action.



Nirvan Mullick



Butte 518

Student Convergence

Student staff from the This Way to Sustainability conference have come together to give you the tools to change the world. Students attending the Student Convergence will have the chance to reflect on what they have learned at the conference, and connect with others that share their same passion. The Student Convergence will consist of leadership skills workshops, discussions on the topics raised at the conference, and brainstorming sessions for action groups. Students will be introduced to groups that are making progress and taking action now, allowing them to take action and implement their ideas right away.



That will never work on my ranch, or will it?

Kelly Garbach

BMU 203

We reviewed 1021 Natural Resource Conservation Service (NRCS) contracts, including 72 contracts with prescribed grazing (conservation practice #528) as a contracted practice. Prescribed grazing was most often contracted together with a suite of other conservation practices, which allowed us to analyze relationships among types of practices implemented.



Low Tech Riparian and Wet Meadow Restoration Techniques for Reduced Erosion and Improved Water-Holding Capacity on Rangelands

Tiffany Russel & Bonnie Eyestone

BMU 203

Partner Biologists collaborate with partners to learn about watershed function and how to implement low-tech rock and log structures techniques in degraded intermittent stream channels and wet meadows. Utilizing these low-risk, cost-effective techniques is part of a regenerative approach to addressing resource concerns and enhancing ecosystem function across grazing lands.



The Clean, Green Event Consulting Team University

Kelly Scott

BMU 204

The Green Events Consulting Team helps CSU, Chico reach its zero waste goals by working with event planners to reduce, reuse, and recycle. Come learn about our certification program! We educate campus coordinators on how to plan a green event and provide on-site waste diversion stations.



Free Money for Student Sustainability

Michal Hanson

BMU 204

In 2006, students voted to increase their fees by \$5 every semester for the creation of the Sustainability Fund, in an attempt to provide students with the opportunity to give back to their campus through innovative and environmentally conscious projects. See how you can make a difference on your campus and community!



One Solar System at a Time

Becca Russell & Shyla Black

BMU 209

GRID Alternatives practices the mission that EVERYONE has the right to renewable energy. This session will share projects that have served entire neighborhoods, affordable housing communities and international villages. Learn how individuals, families and communities are more resilient with access to solar power and training in solar installation.



Adventures in Sustainable Agriculture: Ask for what you want instead of what you don't

Francine Stuelpnagel

BMU 210

A casual discussion about sustainable farming, techniques, crops, and sales. Their story of figuring out how to navigate this unknown world and how they have found their way. Also talking about what they ask for and what they get. The conversation about where they put their energy. The future of food and the workforce.



The Circle of Sustainability

Jenny Lowry & Jason Romer

BMU 210

From The Ground Up is an organization that promotes sustainability by cultivating community gardens. Their gardens are not only a source of produce for access challenged populations, but are also serve as outdoor classrooms for life skills trainings. These trainings range from food production and preparation to nutrition, exercise, economics, and environmental science.



ReFuel Your Fun with Refillable 1 lb. Propane Cylinders

Jordan Wells & Steve Rodowick

BMU 211

Refillable 1 lb. propane gas cylinders are not only an environmentally friendly alternative to single-use 1 lb. propane cylinders, but they also save consumers, parks, and local governments money. Attendees will learn the problems with single-use cylinders, the solution, and how they can refuel their fun with refillables!



Tools for Resilience Planning

Brandon Ertis

BMU 211

With increasing stress on water supplies, innovative ideas to better manage this precious resource are going to be necessary. SmartPhones4Water uses smartphones and citizen science to better understand and manage water. Come find out more about our work in Nepal and the potential for work here in California.



Earth with Ice is Twice as Nice: Our Perilous Slide Toward a Runaway Greenhouse

Peter Hess

BMU 303

The global loss of polar ice cover is a core issue of sustainability, because civilization depends upon stability of sea level, ocean pH, a benign climate for agriculture, etc. Three strategies are crucial for reversing the loss of ice: population reduction, carbon sequestration, and bringing new GHG emissions to zero.



How Can We Achieve Sustainability?

Stephen Feher

BMU 304

The Sustainable Community Development Institute will review progress being made toward Climate Change Mitigation and assess the potential of achieving global Sustainability. This presentation will provide an updated assessment of the likelihood of continued global warming beyond the 2C Global Warming Limit (GWL) goal, while offering an optimistic view based on progress being made to develop renewable energy and economic development in a low-carbon world.



Sustainable Skillshare Workshop: Nontoxic All Purpose Cleaner

Maggie Scarpa

BMU 312

AS Sustainability will be hosting a skillshare workshop, making an all-purpose cleaner that is nontoxic and all natural!

10–10:30AM



Greenie Award Announcements

See page 3 for details

CONCURRENT SESSIONS THURS 10–10:45



Recycling in the 21st Century

Natalie Carter & Becky Holden

BMU 203

Join Butte Environmental Council and Recology for a look at modern recycling. How can you make sure your recycling doesn't end up in the landfill? What is recyclable, and what isn't? What are the most common recycling mistakes? Where do your recyclables end up?



Insects as a Sustainable Food Source

Karen Galvan & Steven Marquardt

BMU 204

Insects are a sustainable protein source that will help us meet the challenge of feeding 9+ billion people by 2050. Jinku, a Chico-based organization, will educate us on the nutritional, environmental and culinary values of eating insects through an interactive presentation that will stimulate your mind and your taste buds.



Marketing for a Purpose

Gabriela Aguilar

BMU 209

As Sustainability Ambassadors, we use social medias to engage the campus community in sustainability efforts. This allows us to inspire and educate others to become active participants in sustainability.



Virtual Reality Applications in Sustainability Education

Karan Monga

BMU 209

Regenerative Agriculture describes farming and grazing practices that, among other benefits, reverse climate change by rebuilding soil organic matter and restoring degraded soil biodiversity, resulting in both carbon drawdown and an improvement to the water cycle.



Regenerative Agriculture – A global effort to solve the damaging effects of climate change and enliven soils

Cynthia Daley & Tim LaSalle

BMU 210

California has implemented Marine Protected Areas (MPAs) to mitigate anthropogenic impacts on our oceans and serve as a conservation network that ensures a sustainable future for our ocean resources. 14 community based collaboratives have been established to advance MPA management and encourage ocean stewardship across the state.



Nucleoculture: Sustainable food, water, and liquid fuels for 1000+ years

Richard McDonald

BMU 211

Nucleoculture is a plan to use next-generation safe nuclear reactors to generate large amounts of energy, food, potable water, and carbon-neutral liquid fuels with minimal land use near large cities on the coast where most of the world's population will reside in 2050 and be sustainable for 1000 years.



Engaging Communities of Color in Sustainability Activism

Vianney Bernabe

BMU 303

The collaborative work that will be required to salvage the planet depends on integrating communities of color into our discussion. Sociocultural linguistics can offer insights into how dominant institutions can effectively incorporate communities of color into discussions of sustainability.



Sustainable Mushroom Farming: Best Practices

Kevin Foley

BMU 304

This presentation has two primary goals. First, to discuss the more fundamental aspects of mushroom farming which include Composting, Growing, Harvesting, and Packaging. Second, the sustainability initiatives being implemented at the Colusa Farm which include recycling, waste management, energy, water, and GHG. All majors, backgrounds, & professions are welcome.

CONCURRENT SESSIONS THURS 10–10:45AM



Sustainability Skillshare Workshop: Nontoxify Deodorant!

Maggie Scarpa

BMU 312 The Associated Students, Chico, Sustainability Program will be hosting a sustainability skillshare workshop, making nontoxic deodorant to reduce the amount of toxins in people's lives.

Keynote Speaker THURSDAY 11AM–12PM



BMU Auditorium

BioGeoTherapy: Reversing Climate Change by Regenerating Land and Ocean Ecosystems



Thomas J. F. Goreau

Thomas J. F. Goreau, a biogeochemist, was educated in Jamaican schools and hold degrees from MIT, Caltech, and Harvard. President and founder of The Global Coral Reef Alliance, he has dived on coral reefs across the Caribbean, Pacific, Indian Ocean, and South-East Asia for more than 60 years. He is co-inventor of the HotSpot method for predicting coral bleaching from satellite data and

of the Biorock method for regenerating marine ecosystems and eroding coastlines.



Lunch

12–1PM

CONCURRENT SESSIONS THURS 1:15–2PM



Chico State Facilities and GHG Goals Report Card

Mike Guzzi

BMU 203 FMS will present a yearly “report card” discussing our progress towards our GHG goals over the past year and the plans for the upcoming year.



Matadors Lead the Scene to Keep it Green!

Soledad Tlamasico, David Aguilera & Jeffrey Magallarus

BMU 204 The Sustainability Center houses programs that are student lead giving the opportunity for students to create a sustainable culture on campus.

THURSDAY 1:15–2PM



How to Create a Culture of Sustainability through Education

Misha Kouzeh & Erica Wohldmann

BMU 204 Learn about the design of Chico's new Science Replacement Building, which aspires to put CSU's climate commitment on display. The design utilizes strategies such as integrating storm water management, targeting aggressive reductions in energy use and greenhouse gas emissions, and by providing an active, healthy environment for learning and teaching.



Maasai Harmonial: A Project Demonstrating How Education of Girls Stops Child Marriage and Slows Population Growth

Karen Gaia Pitts & Elaine Gorman

The Maasai Harmonial project, in a remote location in Tanzania, has boosted both motivation and access to girls' education, effectively reducing child marriage. “With no reduction in child marriage, high fertility rates alone will raise the global number of women married as children to 1.2 billion by 2050” ... Girls Not Brides.



Sustainability from Grapes to Glass: Successful Strategies within the CA Wine Industry

BMU 210 *Kate Venugopal*

This presentation will discuss the evolution of sustainable winegrowing in California and focus on the current state of sustainability in California. Benefits, motivations, and successes of both large and small producers (some publicly traded and most family-owned) to incorporate sustainable practices will be covered.



Community Neighborhood Takes Action Against Water Company

Celia Hirschman, Dennis Mooreland, & Bill Connelly

BMU 211 How a local neighborhood watch took on the third largest publicly-traded water company; What they won and what they lost - A cautionary tale.



Water Conservation Workshop

Angel Gomez & Natalie Carter

BMU 303 In this workshop we will deep dive into the larger picture of water use. Learn about ways to conserve water; these are not your average water conservation methods. From pet food to showers, learn about direct and indirect water use and what you can do to reduce your footprint.

CONCURRENT SESSIONS: THURS 1:15–2PM



Sustainability, Basic Needs, and Student Success

Kristen Wonder & Ryan Todd

BMU 304 Sustainability staff are not often associated with having a direct impact on student success or basic needs, two of the main initiatives at the CSU Chancellor's Office. In this session, you will learn how to connect the dots between sustainability, basic needs, and student success with real campus examples.



Students and Staff: Converting Conversations into Action

Rachel Blake & Kristen Wonder

BMU 304 Students within the Environmental Resource Center (ERC) have always worked to promote sustainability on San Jose State University's campus by partnering with other entities. Campus and community partnerships led the ERC to co-creating the Green Office Workshop series, which has enabled students to practice skills that enhance their resumes.

CONCURRENT SESSIONS: THURS 2:15–3PM



Prescribed Fire, Goats, and Other Best Practices to Mitigate Wildfires

Eli Goodsell & Don Hankins

BMU 203 This session will focus on the history of prescribe fire as a forest management tool and how the CSU, Chico Ecological Reserves are using prescribed fire, goats, and other methods to mitigate fires and promote forest health.



How to Advance Campus Sustainability through Strong Partnerships

Sarah Johnson & Nikhil Schneider

CSU Northridge has achieved remarkable success in advancing sustainability through partnerships across campus. Sometimes it just takes asking the question in the right way and offering support to move forward on a project. This session will share how to cultivate relationships to build on successes and move forward after letdowns.



Leveraging Data to Enhance Sustainability Initiatives

BMU 204 CSU Northridge (CSUN) tracks a range of sustainability related metrics, from campus greenhouse gas emissions to attitudes about sustainability, providing data to create and track campus sustainability goals. This session will cover data from several surveys and how CSUN uses that data to advance sustainability efforts on campus and beyond.

CONCURRENT SESSIONS: THURS 2:15–3PM



Critical Thinking Enablers

Richard Burrill & Lon Halley

BMU 209 Sustainability Conference participants in this session will be introduced to my syllabus that contains sixteen enablers. The number one goal of my revised syllabus is to help internalize their own "built-in, shock-proof crap detector." This catchy phrase was writer Ernest Hemingway's formula for success. It goes hand in hand that good writers are good thinkers.



This Way to Climate Action: Chico State 2037

Maggie Scarpa, Thomas McNairn, & Jared Geiser

BMU 210 Students in GEOG 506: Community Service in Geography used the Cal-Adapt climate tools to forecast the climate at Chico State and the projections are frightful. The students were able to find hope for the future through stories of successful adaptation. The session features students presenting their adaptation ideas.



Vulnerable Landscapes, Resilient Peoples: Anecdotes from the Roof of the World

Philip Clements

This presentation visits local and transient Himalayan communities living between 10,000 and 20,000 feet above-sea-level as they mitigate and adapt to various obstacles caused by global climate change. Anecdotes from expeditions to the high Himalaya from 1963, 2013, and 2017 are leveraged to illustrate the hazards and limitations of inquiries made in extreme conditions.



Campus as a Living Lab (CALL): Immersed in a sea of learning

Luis Zavala & Josh Bonneson

BMU 303 This presentation visits local and transient Himalayan communities living between 10,000 and 20,000 feet above-sea-level as they mitigate and adapt to various obstacles caused by global climate change. Anecdotes from expeditions to the high Himalaya from 1963, 2013, and 2017 are leveraged to illustrate the hazards and limitations of inquiries made in extreme conditions.



Failing Forward: Sustaining Your Drive

David Juarez & Julie Nguyen

BMU 303 Uncertainty and fear of failure are issues that plague many students that are currently trying to find their careers and places in life. Come learn from two recent college graduates as they discuss how they were resilient to these challenges on their pathways to careers in sustainability.

CONCURRENT SESSIONS: THURS 2:15–3PM



Be Fun & Interactive to Make Zero Waste Attractive

Brooke Schuyler & Sandra Torres

BMU 312

Turn Waste-o to Zero! Brooke and Sandra will be sharing their experience in managing various interactive activities and games as examples for students and staff to follow when teaching Zero Waste. They will be discussing the concept of Waste Wizards as a fun approach of educative student engagement.



Solar Hot Water Heaters: Rising Above Electricity

Patrick Murphy

BMU 312

As Sustainability Ambassadors, we use social medias to engage the campus community in sustainability efforts. This allows us to inspire and educate others to become active participants in sustainability.



Bikini Bottom

Lulani Ritok

BMU 312

Still suffering from the effects of nuclear bomb tests, the people of the Marshall Islands now have to plan a future as climate change refugees. Bikini Bottom will address the Marshall Islands' nuclear legacy and the climate actions that the Marshallese people want you to take.

Keynote Speaker

THURSDAY 3:30–5PM



An Existential Threat Requires Unprecedented Action

BMU
203



Wenonah Hauter

food, water, energy and environmental issues. Book signing to follow

*Wenonah Hauter is also the author of Foodopoly

Book signing to follow

Wenonah Hauter is an activist, author and progressive policy advocate. She is the founder and executive director of Food & Water Watch, an organization that, under her leadership, has fundamentally transformed the national debate about hydraulic fracturing (fracking), energy and the environment. Wenonah has three decades of experience campaigning and writing on

Keynote Speaker

FRIDAY 9–9:45AM



How managing our soil can help us address climate change

BMU 100

As a committed environmentalist, (Director of

Greenpeace, Oceana, 1% For The Planet) in 2013 he co-founded The Carbon Underground, an organization focused on re-sequestering carbon in our soil to improve both the climate and food security. Larry is currently a Senior Fellow at USC's Marshall School of Business in the area of Social Entrepreneurism, and served on the White House Panel on Social Innovation under President Obama personally and collectively.



Larry Kopald

SPECIAL EVENT:

FRI 10–11:45AM



Green Career Panel: Chico State Alums

CLSA 100

Interested in pursuing a green career once you graduate from college? Join us for a panel discussion featuring a number of CSU, Chico alums who have been working in sustainability in the private sector and in government since graduating. Come hear their stories and get insider tips on pursuing a career in the diverse field of sustainability professionals! All of our panelists graduated from Chico State in the past ten years – with degrees in a range of disciplines – and all were involved in campus student sustainability programs during their time here. These people have gone on to become young leaders in their fields, working hard to advance sustainability in their communities, regions and the world.

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CONCURRENT SESSIONS: FRI 10–10:45AM



Research and Production of No-Till Vegetables

Lee Altier & Colleen Wofchuck

BMU 203

Growing vegetables without tillage! The Organic Vegetable Project has been shifting production strategies to try to improve soil quality on the University Farm at Chico State. Strategies, challenges, and ongoing research associated with conversion to no-till management will be discussed.



Organic Wealth – An Exploration of Vegetable Variety Trials on the University Farm

Dylan Kelly & Jorge Lopez

BMU 203

Chico is a fabulous place for growing vegetables. At the Organic Vegetable Project on the Chico State University Farm, we have been exploring the production of diverse varieties for nearly 10 years. In this presentation we'll be sharing some of our favorites and how we grow and evaluate them.



CSU Monterey Bay's Laundry to Landscape Greywater System

Noah Sforza & Lacey Raak

BMU 204

This presentation will be on the new greywater laundry to landscape system at CSU Monterey Bay. We will outline how the project works, different aspects of the project design, and the current results of the system.



California's Marine Protected Area Collaboratives: A Community-Based Approach to Resource Management

Cory Pukini

BMU 209

WILDCOAST works to advance the management of California's network of Marine Protected Areas (MPAs). Conservation Coordinator Cory Pukini will share statewide successes that are a product of community engagement and grass roots resource management. Case studies of MPA success will be shared to inspire replication in other resource management and community collaborative arenas.



Carbon-Free Campus' Siskiyou Science Showing the Way

Joseph Wenisch & Roxanne Malek

BMU 210

The new Siskiyou Science building was designed to reduce annual site carbon emissions by 57% saving 730,000 lbs CO₂e/year. This presentation provides an overview of the architectural and engineering approaches taken to achieve this target on budget and with best in class design, safety, thermal comfort, and indoor air quality.

CONCURRENT SESSIONS: FRI 10–10:45AM



Student Power to Fund Renewable Energy: A New Take on the Solar PPA

Roxane Beigel-Coryell

BMU 211

One of the greatest barriers to installing renewable energy is often initial project funding. Inspired by the power purchase agreement model, SOU's student government established an agreement with the university to fund solar panels. This session will present the strategies employed by to make this project a reality and how to replicate it at your campus.



Urban Storm Runoff Assessment of Biofiltration Systems

Sandrine Matiasek & the EPA P3 Student Team

BMU 303

Local stormwater biofilters were monitored to assess their ability to infiltrate urban storm runoff and to mitigate its water quality impacts. This investigation focuses on the long-term performance of urban green infrastructure.



Downshifting to One Earth

Fred Klammt

BMU 304

We can help regenerate the earth by living within one earth equivalence. It is possible to downshift and live comfortably. This presentation will show examples of communities that use less than one earth, how to measure your eco-footprint, and present an eight week program optimizing your footprint.



Building "Inner-Resilience" for Emotional and Spiritual Strength During Turbulent Times

Peter Melton

BMU 312

We are, already, in turbulent times. We are facing global and local challenges that require us to redefine sustainability and resilience. What "Inner-Resilience" will we need to navigate our changing world? In this session we will address our eco emergency and the grief and gratitude of "Inner-Resilience."

Scavenger Hunt

Have you seen one of our special hidden rocks? Remember to bring them to our raffle booth to win a prize!

**Limited to 2 prizes per person and must be attending the conference to participate.*



Before the Flood

BMU 203



Before the Flood presents a riveting account of the changes now occurring around the world due to climate change—the most pressing challenge of our time. The film follows DiCaprio as he travels to five continents and the Arctic speaking to scientists, world leaders, activists and local residents to gain a deeper understanding of this complex issue.

CONCURRENT SESSIONS: FRIDAY 11-11:45PM



A 10 Year Progress Report of the Chico State Climate

Thomas McNairn

BMU 204 CAUSE, a student run club on campus, will re-examine the Chico State Climate Action Plan. They will assess the progress of each strategy proposed in the original plan, as well as provide possible improvements. The goal is to inform students and faculty about the campus's goals toward climate neutrality.



Plants, Fish, and Soldier Flies: Aquaponics at Chico State University

Lee Altier & Matthew Housley

BMU 209 What?! -- Tiny livestock are raised on food waste from the cafeteria, then fed to fish that fertilize plants that clean the water circulating back to the fish?! In the new aquaponics unit on the Chico State University Farm, organic vegetables are grown in a closed system of water circulating among plants and fish.



Environmentalism in the Age of Climate Catastrophe

Derek Warnken

BMU 210 It's too late to stop catastrophic climate change, and time is running out to save what is left. We are proposing a real strategy to save the planet, and offering solutions for a resilient resistance to ecocide. It's time to fight for a living world.



Sustainable Management and Protection of Natural Resources in Sub-Saharan Africa

SEdinam Glover

BMU 211 This study seeks to identify approaches and strategies to strengthen and facilitate legal enforcement mechanisms in the context of sustainable development. It attempts to answer the following questions: What are the legal enforcement mechanisms that can help to enhance compliance with the rule of law and promote sustainable development?



Fueling Yourself: A Guide to Low-Carbon Cuisine

Laura Greene

BMU 303 Sustainable living begins with a single choice. How we approach our most basic needs can ripple out into global changes. Through some simple recipes, behavior changes, tips and tricks you can simultaneously fuel yourself responsibly, save money and reduce your carbon footprint.



Mixing Housing, Mass Transportation, and Sustainability in Northern California

Jonathan Tonel

BMU 303 BART--the four letter acronym that all Bay Area citizens either hate or love. Bill AB 2923 highlighted the issues of transportation, housing, and sustainability to be prioritized in the Bay Area. America's attitude on mass transportation as a whole needs a refocus for an increasing population and decreasing resources.



Refills Not Landfills: Engaging Students in Sustainability

Maggie Scarpa

BMU 304 Waste is a substantial sustainability issue on campus, in the community, and in the nation at large. This panel will discuss the efficacy of engaging students in waste reduction, in the elements that went into this campaign, from educational displays, challenging students carry their trash around, workshops, and more.

CONCURRENT SESSIONS: FRIDAY 11–11:45AM



Production Waste and Holding Producers Accountable

Tania Ruiz

BMU 304 This presentation will discuss the amount of waste produced by industries and how it accounts for approximately 80% of the wasted produced while consumer waste only accounts for 20%. The conversation will then segue into action plans that could be followed by the consumer and community to call for a change in the operations of businesses.



Lunch

12–1PM

Keynote Speaker FRIDAY 1:15–2PM



With and Against the Grain: Bread in the Late Anthropocene

BMU Auditorium

Alice Julier is the Director of the Center for Regional Agriculture, Food, and Transformation (CRAFT), Associate Professor, and Director of Food Studies at Chatham. She is the past president of Association for the Study of Food and Society. She writes about materiality, social movements, domesticity, labor, consumption, and inequality



Alice Julier

in food systems. Her first book, *Eating Together: Food, Friendship, and Inequality*, focuses on commensality, gender, and race.

CONCURRENT SESSIONS: FRIDAY 2:15–3PM



Why Putting a Price on Carbon is Essential to Effective Climate Action

Gordon Gregory & Jerry Hinkle

BMU 203 Citizens Climate Lobby will present several ideas for pricing carbon while discussing where carbon fees have been implemented. Furthermore, this presentation will demonstrate the economic importance of implementing these carbon fees. This presentation will briefly discuss the politics of pricing carbon and efforts to convince policy makers of its benefits.

CONCURRENT SESSIONS: FRIDAY 2:15–3PM



Cows, Pigs, and Chickens are Smart, So Don't Eat Them

Robert Jones

BMU 204 The results of recent studies into animal cognition reveal that those same animals slaughtered for food at the highest numbers globally cows (300 million), pigs (1.5 billion), and chickens (66 billion) are cognitively and socially sophisticated. Robert argues that continuing to raise these animals as food constitutes to poor moral faith.



Social Justice Issues in Traditional and Alternative Food Systems

Susanna Boxall & Robert Jones

BMU 204 Professor Boxall and Professor Jones will discuss the systemic problems and proposed individual market/consumer-based solutions that end up being 1) ineffective or 2) damaging/perpetuating unequal power relationships.



Head in the Clouds, Feet on the Ground

Nani Teves

BMU 209 At Chico State, we push boundaries and double down when it comes to sustainability. We have set goals for Climate Neutrality, Zero Waste, and Divestment. With 2020 around the corner, it is time to check in on how well we have aligned our values with our actions.



Gain a Competitive Advantage as a Sustainability Management Certified Professional or Associate

BMU 210 Angela Casler & Rex Hayes

Join the Sustainability Management Association's panel in transforming leadership to manage for a healthy economy, natural environment, and society. The SMA is a professional association whose members strive to make a positive difference, and accredits professional certification for experienced professionals in many different positions.



What's in Your Trash?

Logan Babcock & Elle Harlow

BMU 211 The Cal Poly SLO Climate Change Action Research Group, an undergraduate led research team, in collaboration with other clubs and faculty, performed audits of waste bins across campus. This presentation will give the grimy details of Cal Polys waste system and discuss efforts to make this system more sustainable.

CONCURRENT SESSIONS: FRIDAY 2:15–3PM



What do Cal Poly Students Know About Climate Change?

Cal Poly’s undergraduate led Climate Change Action Research Group (CCARG) surveyed a thousand students to evaluate their knowledge on climate change. This presentation will take you through the methodology of implementation, logistics of data collection and processing, the significant results of the survey, and what they mean for the future of Cal Poly.

BMU 211



Student Leadership in Climate Change Research

Cal Poly’s Climate Change Action Research Group consists of an interdisciplinary group of undergraduates working to promote campus sustainability. CCARG administered a survey to 1,000 students that assessed their knowledge of climate change. The results will help maximize future action towards sustainability on campus.

BMU 211



Trash Talk: Fighting Climate Change through Food Waste Diversion

Amanda Simpson & Shannon Casey

BMU 303 What if I told you every decision you made could fight climate change? This presentation will present a womb to tomb analysis of food waste in the UC Davis Dining Commons - starting with production and ending with disposal - with an emphasis on food waste reduction.

CONCURRENT SESSIONS: FRIDAY 2:15–3PM



The UC Davis Sustainability Squad

Madison Lefler & Lara Ibrahim

BMU 303

The Sustainability Squad is a volunteer program for first-year student residents to engage with their peers and learn more about sustainability best practices. This presentation will examine the merits of peer interactions in order to alter the habits and behaviors of students to becoming more sustainable.



Carbon Neutrality on a Commuter Campus? Assessing carbon strategies using the Stinger Sustainability Survey

Ajay Singh & Reshmi Prasad

BMU 304

We will present results of the Stinger Sustainability Survey to estimate undergraduate student carbon emissions and the likelihood that students will engage in sustainable behaviors. We will provide recommendations for campus initiatives to motivate behavior change that lead to the campus goal of carbon neutrality by 2050.

Keynote Speaker

FRIDAY 3:15–5PM



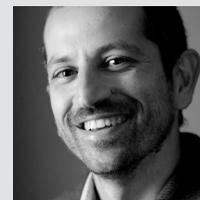
BMU 100



Audrey Denney

Bring it all Home: North State Strong

Audrey Denney is an educator and a farmer and was the Democratic challenger of Rep. LaMalfa (CA-01) in 2018. She holds a BS and MS in Agricultural Education from Chico State and taught there for six years. Much of her career has been devoted to mitigating climate change and building a resilient food supply.



Nirvan Mullick

Nirvan Mullick is an award winning filmmaker, speaker, and founder of Climate Uprising and Imagination.org. His work has sparked movements including the UN Foundation’s #EarthToParis leading to the Paris Climate Agreement and the Caine’s Arcade viral short film that sparked a global movement of cardboard creativity.

UPCOMING REGENERATIVE AGRICULTURE EVENTS

Grassfed Exchange Conference

April 3-5, 2019 at the Sonoma County Fairgrounds

The Grassfed Exchange is a coordinated effort of producers and buyers of grassfed genetics that come together to form the Grassfed Exchange Committee. Their desire is to provide a means of education and exchange of grassfed genetics between producers.

Soil Health Event with Glenn County RCD + Colusa County RCD: Unruh + Kabir

April 17, 2019 at Daniel Unruh's Walnut Orchard

Daniel Unruh will talk about cover crops, nematodes and orchard health, and give guests a demonstration of the Unruh crimper in action. Zahangir Kabir, USDA-NRCS, will give us a rain simulation that shows what happens to orchard soils with no cover crops and what happens to adjacent soils with cover crops.

4th Annual Run Happy Bee Happy Run & Brunch

April 27, 2019 at Burroughs Family Farm

The profits will benefit Planet Bee Foundation and the CSU, Chico Regenerative Agriculture Initiative. Come out to the Organic Farm and enjoy the day with family and friends. You can run or walk the path which will show you the organic pasture dairy, solar panels, olive and almond trees, organic pastured hens, and more. After the race, a brunch will be prepared with local foods and beverages. Local vendors will be on display.

Soil Health Workshop

May 6-7, 2019 at CSU, Chico

During this 2-day event, we will be having speakers from all over the country discuss various methods of soil health and conservation, with a focus on regenerative agriculture. The second day we will have a hands on workshop with Dr. Nicole Masters, Director of Integrity Soils, where we will also discuss soil sample analysis of various cropping systems.

WWW.CSUCHICO.EDU/REGENERATIVEAGRICULTURE/



Front row: Kelly Scott, Cristina Perez, Michala Pelren, *Middle row:* Elizabeth Harmer, Maggie Scarpa, Ty Hartl, Rachel Garrett
Back row: Lilly Ross, Nicholas Chicoine, Alyssa Myers, Michal Hanson

P Parking Information

Conference registration and most all of the conference events occur in the Bell Memorial Union at the corner of West Second and Hazel streets. Guest parking tickets may be purchased using Visa and MasterCard only at permit dispensers in each lot. Please see our website for specific dispenser locations within each lot and available parking maps.

Please **do not** park in any stall posted Reserved (R1 or R2). Parking lots are enforced from 7:30 AM–10 PM. Permits must be clearly displayed on the dash of your vehicle.

Additional parking is available in City of Chico lots adjacent to the University at the corner of Second and Salem Streets, and in the City of Chico Parking Structure at the corner of Fourth and Broadway Streets.

♿ ADA Information

California State University, Chico has adopted a policy of nondiscrimination and encourages all people to participate in our programs and activities. At University sponsored events, CSU, Chico will provide reasonable accommodations to members of the general public with disabilities unless doing so would create an undue hardship as described by law or cause a fundamental alteration of the program, activity, or service. Please contact 530-898-3333 with accommodation concerns in advance, or visit the registration table for further assistance. For more information, please visit our Accessibility Resource Center website at www.csuchico.edu/arc.

GREENING OF THE CONFERENCE

Sustainability is the mission of the conference content and operations, CSU, Chico. We have taken the following measures to ensure that the conference reflects those principles:

- Asked presenters to limit paper handouts during sessions
- Implemented a mobile application to limit the number of programs printed
- Printed posters and programs on Green Seal Certified “Environment” paper, made with renewable energy and containing 100 percent post-consumer chlorine-free fiber
- Implemented a 100 percent electronic check-in and ticketing system
- Reused lanyards and wristbands from previous years
- Provided only reusable and compostable dish ware at all meals
- Consciously chose foods that were seasonal, local, and organic when possible, including produce from our own University Farm
- Used bulk condiments (no single servings)
- Suggested participants stay in downtown Chico so they are within walking distance of the campus
- Used reusable, compostable, or borrowed items for special conference events
- Provided recycling and compost bins throughout the conference
- Provided options for moderators to limit light during sessions
- Offered vegetarian, vegan, and gluten-free menu options for conference meals
- Removed trash cans from session rooms to encourage zero waste
- Created and encouraged a carpooling system using Zimride
- Eliminate plastic name badge holders
- Identified Filtration Hydration Stations for participants to fill water bottles instead of using table service



This Way To Sustainability™ XIV programs, posters, and postcards are printed on green seal certified environment® pc 100 white. Made with 100 percent post-consumer fiber; mill process, including packing are environmentally preferable.

www.greenseal.org



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CONFERENCE HOST

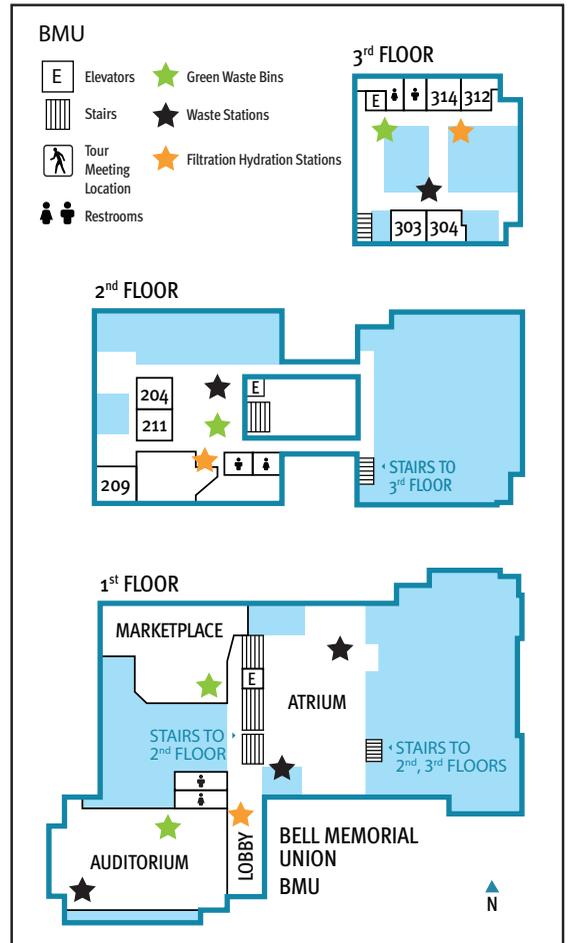


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| Hodge's Nursery | The Commons |



We are a striving for zero waste, which is 90 percent diversion away from the landfill. Please dispose of all waste at the designated waste stations. Thank you!



This Way to Sustainability Conference at CSU, Chico
www.csuchico.edu/sustainability
 (530) 898-3333
sustainability@csuchico.edu

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