

This Way to

# Sustainability<sup>SM</sup> Conference X

Thursday, March 26 & Friday, March 27, 2015

CALIFORNIA STATE UNIVERSITY, CHICO



## BUILDING RESILIENT COMMUNITIES

Energy and the Environment  
Infrastructure and Transportation  
Climate Impacts on Food and Agriculture  
Water Resources  
Laws, Policies, and Business

Population  
Science and Technology  
Lifestyles, Health, and Wellness  
Community Partnerships and Action  
Educating for Resilience

Download the  
mobile conference  
app by scanning  
this QR code.



# Welcome to This Way to Sustainability<sup>SM</sup> Conference X at **California State University, Chico!**



**James C. Pushnik**  
Director of the Institute for Sustainable Development

The Institute for Sustainable Development and Associated Students of CSU, Chico would like to welcome you to This Way to Sustainability Conference X. This year's conference, "Building Resilient Communities," has been organized by our student to address their concerns about the coupled environmental and socioeconomic issues of our time, and to explore novel approaches to the creation of a more sustainable and resilient future. Over the next two days, we encourage you to share in conversations, build new friendships, and leave with a refreshed sense of hope and direction for our sustainable future. We specifically have assembled conference tracks that cover a broad range of topics relevant to everyone and would like to extend a special thanks to our speakers for their time and efforts, to our sponsors for their kind support, and to all of you who have made this possible. We hope it will be an exciting, informative and memorable experience.

We are very proud of our campus commitment to sustainability, from the co-curricular activities of our students to the curricular innovations and dedication of our faculty to sustainability education, our pledge to divest from fossil fuels to the restoration of native species along the creek, from the implementation of best practices by facilities management to our LEED certified buildings, from the efforts of food services to our zero waste efforts. We hope that while you are here on our campus for the conference, you will also find opportunities to enjoy the unique environment that is California State University, Chico. Welcome!

## THURSDAY, MARCH 26 AT A GLANCE • CONFERENCE SCHEDULE

8AM	Registration & Continental Breakfast	Bell Memorial Union Auditorium/Lobby
9–11AM	K–12 Greenie Presentations <i>page 5</i>	BMU Auditorium
9–10:45AM	Concurrent Sessions	BMU 203–304
10–11:30AM	<b>Tour:</b> Compost Display Area <i>page 5</i>	BMU North Entrance
11–11:30AM	K–12 Greenie Awards Announcement <i>page 5</i>	BMU Auditorium
11–11:45AM	Concurrent Sessions	BMU 204–312
11:30AM–1PM	Local Lunch Buffet* <i>page 5</i>	BMU Auditorium
12–12:50PM	<b>Keynote Speaker:</b> Scott G. McNall <i>page 5</i>	BMU Auditorium
1–1:45PM	Concurrent Sessions	BMU 203–312
1–2PM	<b>Tour:</b> Campus Sustainability Walking Tour <i>page 6</i>	BMU North Entrance
2–2:50PM	<b>Keynote Speaker:</b> Dennis Dimick <i>page 6</i>	BMU Auditorium
3–3:45PM	Concurrent Sessions	BMU 203–304
4–5PM	<b>Keynote Speaker:</b> Dune Lankard <i>page 6</i>	BMU Auditorium

## LEGEND

	Keynote Speakers		Community Partnerships and Action		Lifestyles, Health, and Wellness
	Featured Films		Educating for Resilience		Population
	Tours		Energy and the Environment		Science and Technology
	Local Lunch		Infrastructure and Transportation		Water Resources
	Climate Impacts on Food and Agriculture		Laws, Policies, and Business		Open Conversation

## FRIDAY, MARCH 27 AT A GLANCE • CONFERENCE SCHEDULE

8AM	Registration & Continental Breakfast	Bell Memorial Union Auditorium/Lobby
9–11AM	Higher-Ed Greenie Presentations <i>page 6</i>	BMU Auditorium
9–10:45AM	Concurrent Sessions	BMU 203–312
11–11:30AM	Higher-Ed Greenie Awards Announcement <i>page 6</i>	BMU Auditorium
11–11:45AM	<b>Featured Speaker:</b> José G. González <i>page 7</i>	BMU 203
11–11:45AM	<b>Film:</b> <i>Growing Cities page 7</i>	BMU 210
11–11:45AM	Concurrent Sessions	BMU 203–211
11:30AM–1PM	Local Lunch Buffet* <i>page 7</i>	BMU Auditorium
12–12:50PM	<b>Keynote Speaker:</b> Anne Waple <i>page 7</i>	BMU Auditorium
1–1:45PM	<b>Tour:</b> Gateway Science Museum <i>page 8</i>	BMU North Entrance
1–1:45PM	Concurrent Sessions	BMU 203–312
2–2:50PM	<b>Featured Speaker:</b> Patricia Dutcher <i>page 8</i>	BMU Auditorium
3–3:45PM	Concurrent Sessions	BMU 204–314
4–5PM	<b>Keynote Speaker:</b> Marissa Mommaerts <i>page 8</i>	BMU Auditorium
5:30–9PM	Environmental Coalition Gathering <i>page 8</i>	C.A.R.D. Community Center

## GREENING OF THE CONFERENCE

*Sustainability is the mission of the conference content and operations. 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 from renewable energy and containing 100% post-consumer chlorine-free fiber.
- Implemented a 100% 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).
- Obtained all food from the greater North Valley when possible.
- Suggested participants stay in downtown Chico so they are within walking distance of the campus.
- Used reusable or compostable decorations.
- Provided recycling and compost bins throughout the conference.
- Collected all food waste during meal preparation for composting.
- Provided options for moderators to limit light during sessions.
- Limited meat choices and offered vegetarian and vegan options for conference meals.
- Removed trash cans from session rooms to encourage zero waste.
- Created and encouraged a carpooling system using Zimride.
- Implemented waste audit to track and measure waste the conference uses.
- Created plantable name badges with wildflower seeds for attendees to plant after the conference.



This Way To Sustainability™ X programs, posters, and postcards are printed on green seal certified environment® pc 100 white. Made with 100% post-consumer fiber; mill process, including packing are environmentally preferable. [www.green-seal.org](http://www.green-seal.org)



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## BUILDING COMMUNITY RESILIENCE

We are living in an increasingly ever changing global environment that has brought us to the present state of human development and well-being. Along with some associated unintended challenges to the functioning of our socio-economic and environmental systems, there is a growing recognition that the deteriorating global environment threatens to disrupt the potential collapse of our social and environmental organization. The extent to which these unplanned impacts will influence our future remains uncertain, but the future will favor those that are prepared. The concept of resilience represents the capacity, of both human and natural systems, to recover from, adapt to and maintain vital services when threatened by external forces. Building resilient communities is an effort to create and sustain local communities and regions facing vulnerability from emerging natural hazards, changing social dynamics and increasing resource constraints. It is about the capacity to overcome adversities through prior planning for disturbances through the development of adaptation and mitigation strategies central to maintaining our quality of life.

## CONFERENCE EXECUTIVE TEAM

Teri Randolph, Jim Pushnik, Andrew May, Alysa Kammermeyer, Fletcher Alexander, Colleen Hatfield, Nate Millard, Courtney Silver, Kevin Killion, and Tim Sistrunk

## SPECIAL EVENTS

THURSDAY 10–11:30AM



BMU North Entrance

### TOUR: Compost Display Area

*Lindsey Rubottom, AS Sustainability Compost Education Coordinator*

This workshop will follow the development of the California State University, Chico Compost Display Area and Garden, ultimately leading to a discussion on how others could start their own gardens in their communities and campuses.

THURSDAY 11–11:30AM



BMU Auditorium

### K–12 Greenie Awards

*Poster Competition Presentations 9–11AM, Voting Open Until 11AM in the BMU Auditorium*

The annual This Way to Sustainability Conference "Greenie Awards" will recognize nominated student groups from K-12 schools within the **Butte County School Districts** for their accomplishments in the field of sustainability. The top finalists will display their projects in the BMU where voting will take place.

Conference participants will have the opportunity to vote for the winners within each category on Thursday, March 26, 2015 from **9–11AM**. First, second, and third place winners will be announced at the **awards ceremony between 11–11:30AM** in the BMU Auditorium.

THURSDAY 11:30AM–1PM



BMU Auditorium

### Local Lunch Buffet

Starting at 11:30AM, a local lunch will be served buffet style in the Bell Memorial Union. Advance registration and payment for the lunch is required. Additional fee of \$13 per person.

### Local Lunch Menu

Fusion Chicken Bowl: Grilled Mary's Free Range Chicken served with

- Daikon sprouts, avocado, organic carrots, and cucumber slices
- Drizzled with a creamy ginger garlic soy dressing
- Served on a bed of organic brown rice and spring mix salad
- Served with a freshly baked Sutter roll
- Beverage included

THURSDAY 12–12:50PM



BMU Auditorium



**Scott G. McNall**

*Founder of the Institute for Sustainable Development*

### Inequality: Why It Doesn't Work, Can't Work, and Why It Threatens Resiliency

Democracy and an agenda for sustainability are threatened by inequality. All humans, regardless of where they live, have basic needs that must be met if they are to be full participants in the societies in which they live. Inequality destroys human and social capital, reduces trust, weakens societies, and threatens their ability to adapt and change. The conditions that threaten our future include not just climate change but also a political agenda that seeks to destroy social safety nets while at the same time reducing environmental regulations. The political and economic forces driving an agenda that imperils all of us are outlined and an agenda for resilience is offered.

## SPECIAL EVENTS

THURSDAY 1–2PM



### Campus Sustainability Walking Tour

*Fletcher Alexander, Campus Sustainability Coordinator, The Institute for Sustainable Development at CSU, Chico*

BMU North Entrance

This walking tour of campus will highlight sustainability efforts from LEED-certified buildings and alternative transportation initiatives to waste-diversion efforts and sustainability programming in the Associated Students, University Housing, and more! Join us and learn about sustainability on the CSU, Chico campus from the folks who work on it every day!

THURSDAY 2–2:50PM



BMU Auditorium



**Dennis Dimick**

*Executive Editor, Environment/  
National Geographic Magazine*

### Stewardship in the Anthropocene

We have transformed our finite planet—the land, seas, and atmosphere—with a seemingly infinite expansion of our dominion over Earth. Scientists and others have begun calling this new human-dominated era the Anthropocene, or “Age of Man.” Trend lines show our conquest isn’t sustainable, wild habitats and species are disappearing, and our planet is slowly being polluted and cooked by the effluent of our expanding aspirations. Is it possible to create a soft landing for civilization? What will it take? How can ingenuity, wisdom, and those same fossil fuels build a bridge to a sustainable future powered primarily, once again, by current sunlight? Dennis Dimick serves as executive environment editor at *National Geographic* magazine.

THURSDAY 4–5PM



BMU Auditorium



**Dune Lankard**

*Native Athbaskan Eyak from the  
Copper River Delta of Alaska*

### The Green Race: Building Positive Sustainable and Resilient Communities for Our Future

The world economy and environment is changing at such a rapid rate that we as a human race need to re-define what is important to us and necessary. We have to be aware and dedicated in order to thrive and coexist in a world where fresh air and clean, healthy water is traded in for profits, and where ocean acidification and loss of critical habitat could lead to chaos and mass extinction in our lifetimes. Although this is a serious and perilous topic, Dune has amazing experiences and successful outcomes, and he wants to share ideas and stories about what’s possible and what is happening during these earth-changing times. The race to be green is on, so come on board!

FRIDAY 11–11:30AM



BMU Auditorium

### Higher-Ed Greenie Awards

*Poster Competition Presentations 9–11AM, Voting Open Until 11AM in the BMU Auditorium*

The annual This Way to Sustainability Conference Higher Education Greenie Awards will recognize nominated student groups from **North State colleges and universities** for their accomplishments in the field of sustainability. The top finalists will display their projects in the BMU where the voting will take place.

Conference participants will have the opportunity to vote for the winners within each category on Friday, March 27, 2015, **9–11AM**. First-second-and third-place winners will be announced at the **awards ceremony between 11–11:30AM** in the BMU Auditorium.

## SPECIAL EVENTS

FRIDAY 11–11:45AM



BMU 203



**José G. González**

*Founder–Director of Latino Outdoors*

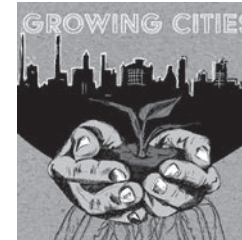
### Yo Cuento: Storytelling for Inclusion and Connecting With Communities

Join us to identify the stories and narratives embedded in the work we do as conservationists and how they connect, or disconnect, with different communities. Find ways to connect the power of stories to validate community experiences and how they relate to the science and sociology of how communities connect with nature and the outdoors. We’ll reflect on examples of cultural relevancy and how stories are entry points for discussions of bias, privilege, diversity, and inclusion.

FRIDAY 11–11:45AM



BMU 210



### Growing Cities

*Moderated by Mark Stemen, Geography and Planning at CSU, Chico*

*Growing Cities* is a documentary film that examines the role of urban farming in America and asks how much power it has to revitalize our cities and change the way we eat. The film follows two friends on their road trip across the country as they meet the people who are challenging the way this country grows and distributes its food—from those growing food in backyards to make ends meet to educators with the goal of teaching kids to eat better; activists seeking a meaningful alternative to the industrial food system, and more.

FRIDAY 11:30 AM–1PM



BMU Auditorium

### Local Lunch Buffet

Starting at 11:30AM, a local lunch will be served buffet style in the Bell Memorial Union. Advance registration and payment for the lunch is required. Additional fee of \$13 per person.

### Local Lunch Menu

Tri-Tip Steak Salad

- Local spring mix salad with a balsamic vinaigrette, fresh beets, asparagus, tomatoes, and assorted seasonal vegetables

- Niman Ranch sliced steak served on the side
- Certified organic gluten-free pesto pasta made with quinoa and homemade freshly baked sutter rolls
- Beverage included

FRIDAY 12–12:50AM



BMU Auditorium



**Anne Waple**

*Second Nature*

### Thresholds of Change: Creating Positive Impact in a Changing Climate

This presentation will address how creating a leadership network and crossing a threshold of participants can spur a broader change. We will also address how climate thresholds themselves have influenced action, and how action itself is evolving and becoming “mature” at a variety of levels.

## SPECIAL EVENTS

FRIDAY 1–1:45PM



BMU North  
Entrance

### TOUR: Gateway Science Museum—Explore the Eco Region Native Plant Garden of the Gateway Science Museum

*Jennifer Jewell, Luann Manss, Gateway Science Museum, Gateway Gardens*

Explore the Gateway Science Museum's Gateway Gardens. The gardens showcase eco-regions, California native plants, and habitats. During the tour, learn about sustainable landscaping and gardening, drought-tolerant native plants, and supporting pollinators. The cost of the Gateway Gardens tour is free with proof of This Way to Sustainability X registration.

FRIDAY 2–2:50PM



BMU  
Auditorium



**Patricia Dutcher**

*Environmental Research Specialist*

### Building Resilient Communities Through Community-Based Research

This presentation describes case studies of local perspectives on water, energy, and climate. Patricia Dutcher will discuss how local views can contribute to the policy and technology developments needed to promote community resiliency and sustainability on a larger scale.

FRIDAY 4–5PM



BMU  
Auditorium



**Marissa Mommaerts**

*Communication Manager  
at Transition US*

### A Resilient Response to Our Planetary Crisis

We live in uncertain times, but across the country and around the world, people are taking practical, creative action to slow climate change and regenerate communities and ecosystems, at the same time building resilience to the converging ecological and economic challenges we face. From learning how to work with nature and getting to know our neighbors to reclaiming commons and rethinking our economy, learn about practical and inspiring models for sustainability that can truly change the world.

FRIDAY 5:30–9PM

C.A.R.D.  
Center



### Environmental Coalition Community Gathering

*This event is sponsored by the Butte Environmental Council*

The newly renamed Environmental Coalition of Butte County invites all conference participants to a community gathering on Friday, March 27 following the last keynote presentation. This event brings together local environmental organizations and their supporters for a night of conversation and celebration. By gathering together, we hope to strengthen relationships and improve communication between the organizations to develop more viable strategies and alliances for a safer, healthier, and more vibrant community. There will be free appetizers and adult beverages for sale. All from the local environmental community are encouraged to attend.

The C.A.R.D. Center is located at 545 Vallombrosa Avenue Chico. For more information about this event, please contact Butte Environmental Council staff at 530-891-6424 or visit the BEC website at [www.becnet.org](http://www.becnet.org).

## CONCURRENT SESSIONS

THURSDAY 9–9:45AM



BMU 203

### Food and Ag Forum: Progressive Farming Practices and Policies

*Lee Altier, CSU, Chico; Tod Kimmelshue, Golden State Farm Credit; Josh Davy, UC Cooperative Extension; and Francisco Fonesca, Center for Costa Rican Development (CEDECO)*

What trends in agriculture practices and policies are promoting a more sustainable food supply and supporting the creation of more resilient communities? More than just commodity production, local agriculture integrated with community may contribute to the culture, security, and resiliency of the community. A diverse panel of agriculturalists will share perspectives and promote a discussion about how current trends in food production relate to community resiliency.



BMU 204

### A Fresh Look at Food Security

*Alicia Bedore and Judy Hamamoto, Center for Healthy Communities at CSU, Chico*

Celebrating the importance of CalFresh and the economic, social, and environmental factors of the program. We will be debunking myths and providing correct, nonbiased facts about this food security safety net. Information will be provided on the benefits of using local resources and creating sustainable environments.



BMU 209

### Step by Step: Developing Local Food Systems and the North Valley Food Hub

*Jake Brimlow, College of Agriculture at CSU, Chico, and Noelle Ferdon, Northern Regional Land Trust*

We will report updates, outcomes, and lessons learned from several programs designed to stimulate local food-system growth in the North Valley. We will focus attention on the North Valley Food Hub, which facilitates local food transactions and conducts training events and workshops for local growers.



BMU 210

### Local Responses to the On-Going Drought

*Vickie Newlin, Butte County Department of Water Resources and Conservation*

The state of California has been suffering from three years of continued drought. Even if weather conditions move toward a wetter year as we move into 2015, it is anticipated that water supplies for urban, agricultural, and environmental needs will still fall short of statewide demands. This discussion will revolve around what is being done in the North State to address the drought and protect the water resources so vital to our local environment and agricultural economy.



BMU 211

### Renewable Energy Solutions: Compressed Air for Energy Storage

*Juan Manuel Diaz, Mechanical Engineering Student at CSU, Chico*

This presentation will consist of background, theory, and implementation of Compressed Air for Energy Storage (CAES) systems. In addition, Manuel Diaz will be presenting his research project on Heat Transfer Rate Optimization for Multi-Stage Compression Systems in CAES.



BMU 303

### Case Studies in Seed Funding: Revolving Energy-Efficiency Funds

*Elana Faria and Salas O'Brien*

This presentation will summarize key issues in many of the case studies as well as describe the nuances between the two types of programs: Revolving Energy Efficiency Funds (REEF) and Energy Efficiency Revolving Loan Funds (EERLF). It will focus on the main process used to identify and secure funding and to implement a successful program (and the difficulties encountered in trying).



BMU 304

### Sustainable Foundations: Establishing the Eco Rep Program at CSU, Chico

*Justin Flick and Mary Manouse, The Institute for Sustainable Development Eco Reps*


In coordination with the sustainability coordinator and two student coordinators, the Eco Rep program seeks to motivate students to become leaders for sustainability in their residence communities. In this workshop, Justin Flick and Mary Manouse will discuss the challenges and successes in building this program, and what they hope to accomplish going forward.

## Conference cohort




ASSOCIATED  
STUDENTS | *csu.chico*

AS Sustainability establishes and operates sustainability projects for the Associated Students and promotes eco-awareness on campus. The AS Sustainability Fund Committee (SFAC) provides funds toward sustainability-related, student-driven projects. Since 2009, SFAC has funded 103 projects for a total of over \$250,000. To learn more about AS Sustainability, visit <http://www.aschico.com/sustainability>.

**BMU 203**  **The Little Engine That Could: Carbon Free and Dividend**  
*Peter Joseph, Citizens' Climate Lobby*

Carbon pollution is out of control, and global warming may soon be too as climate tipping points are passed. A rising fee on greenhouse gas emissions, with full dividend and border adjustments, will position the United States to lead a global response to climate change.

**BMU 204**  **Ancient and Modern: The Sacred Nature of Water Living Community Challenge**  
*Susan Rainier, Eagle Consult*

Susan will show images of ancient ways for the management of water that can be combined with the new for best practices for the times we are living now, Living Future, and Blue Future. Permaculture will also be discussed.

**BMU 209**  **Outdoor Education for All! A Collaborative Case Study of Collaboration in Butte County**

*Marti Leicester, Outdoor Education for All! (OEFA); Ann Stephens and Nate Millard, CSU, Chico; Mary Anne Pella-Donnelly, and Shannon Johnson—Moderated by Jeff Mott*


Learn new cooperative, interdisciplinary models for communities to provide outdoor and place-based education to improve environmental resiliency for current and future generations.

**BMU 210**  **Cosmic Montessori and Interconnectedness: An Educational Journey Toward Sustainability**  
*Tanya Parish, Butte Environmental Council*

Follow exploration of one individual on a journey into the ideas of sustainability and how they could relate to education. Explore the ecological crisis that humans are facing and the responsibility of educators to explore solutions via the curriculum they implement in their classrooms.

**BMU 303**  **Are You a Radical? Discussion on Varying Theories of Change**  
*Kevin Killion, California Student Sustainability Coalition*

This is an opportunity for you to join a conversation about different models and theories for how to achieve the sustainable world we need.

**BMU 312**  **Can Aquaculture and Aquaponics be Truly Sustainable? An Interactive Discussion About Fish in a Conscious Future**  
*Michael Hasey, The Farming Fish*

An innovative and nearly truly sustainable production system, aquaponics has great potential in diversifying organic agriculture production. The presentation will explain the pros and cons of why aquaponics and sustainable aquaculture should be considered as part of a diversified farm plan.

**BMU 208**  **The Sustainable Commute: Inspiring Daily Transportation Behavior Change in the Bay Area**

*Alicia Brown and Chelsea Biklen, Capitol Corridor Joint Powers Authority; Erica Tan, Alameda County General Services Agency; and Christopher Koh, Skyline College*

How can you change transportation behaviors? This presentation will showcase different marketing and outreach tactics used to motivate individuals to use sustainable transportation for their daily commutes to work or school.

**BMU 204**  **Stone Edge Farm Microgrid Systems**  
*Ryan Stotlenberg, Woozer Engineering*

This three to four year project located in Sonoma is a microgrid project with the intent to see how far we could reduce our carbon footprint and show what may be possible with current technological solutions and creativity. We are creating an interconnected network of electrical services that will be capable of providing emergency power in the event of a macro grid failure or by choice to intentionally island the microgrid and ultimately run in parallel operation with the macrogrid.


**BMU 209**  **Divestment From Fossil Fuels**  
*Kevin Killion and Kaitlin Haley, California Student Sustainability Coalition*

In this workshop, we host leaders of the divestment from fossil fuels movement to discuss past victories, best practices, and how you can get involved in one of the fastest spreading movements in history.


**BMU 100**  **K–12 Greenie Award Voting and Announcements**  
*Projects will be on display from 9–11AM  
Winners will be announced at the awards ceremony from 11–11:30AM*

The annual This Way to Sustainability Conference Greenie Awards will recognize nominated student groups from K–12 schools within the **Butte County School Districts** for their accomplishments in the field of sustainability. The top finalists will display their projects in the BMU where voting will take place.

Conference participants will have the opportunity to vote for the winners within each category on Thursday, March 26, 2015 from **9–11AM**. First-second-and third-place winners will be announced at the **awards ceremony between 11 and 11:30AM** in the BMU Auditorium.

**BMU 210**  **Drought Is the New Normal: Living Within Our Means in California**  
*Robyn DiFalco and Carol Perkins, Butte Environmental Council; and Marty Dunlap, Citizens Water Watch*

As climate change promises more drought and less snowpack, how will California learn to reduce demand to meet its dwindling water supply? California's water crisis cannot be solved with the same thinking and engineering that got us here in the first place. Adaptation and conservation are the only solutions.

**BMU 211**  **From Student to Environmental Professional: How to Frame Your Experience and Rock Your Interview**  
*Colleen Butterfield, Alliance to Save Energy*

It's a scary world out there for recent graduates. You shouldn't have to figure out how to navigate it alone! Attendees of this session can expect to leave with a better idea of how to frame their experience and skills for the environmental career fields and the application/interview process in general.

**Conference Sponsor**

**Rawlins Endowed Professorship**

The Professor of Environmental Literacy, a position made available through the Rawlins Endowed Professorship, has the responsibility to prepare all students of all majors, across the campus, for dealing with a world environment which is being continually diminished by loss of species; disappearance of habitats; and degradation of air, water, and soil. The conference host and director of the Institute for Sustainable Development, Colleen Hatfield, is currently the Rawlins Endowed Professor of Environmental Literacy.

**BMU North Entrance**  **Compost Display Area 10–11:30AM**  
*Lindsey Rubottom, AS Sustainability Compost Education Coordinator*

Creating and Cultivating a Garden and Compost Facility Campus and community gardens provide people with a valuable source of healthy foods while allowing citizens to dispose of organic wastes in a responsible and useful manner. Our workshop will follow the development of the California State University, Chico Compost Display Area and Garden, ultimately leading to a discussion on how others could start their own gardens in their communities and campuses. **Meet at the north entrance of BMU.**

**SPECIAL EVENT**

**Hydrogarden Workshop \$15**

*Facilitated by Michael Hasey, The Farming Fish (Sponsored by Ag Mart Inc.)  
Separate fees apply, only 20 spaces available  
11–11:45AM - BMU 312*



Participants will join this facilitated workshop for a build-your-own indoor window hydrogarden. Take advantage of this workshop and learn how you can build, maintain, and harvest your own herbs and vegetables with a limited space on a limited budget. With the expert guidance of aquaponics specialist Michael Hasey, The Farming Fish, and the generous donations from our local garden supplies shop Ag Mart, you will have a hands-on opportunity to learn how to create and maintain your very own window garden to take home!

Limited availability, check at registration desk for current availability.



**Local Lunch Buffet**

Fee: \$13  
(Purchase ticket online during conference registration process)

Starting at 11:30AM, a local lunch will be served buffet style in the Bell Memorial Union. Advance registration and payment for the lunch is required.

Fusion Chicken Bowl: Grilled Mary's Free Range Chicken served with

- Daikon sprouts, avocado, organic carrots, and cucumber slices
- Drizzled with a creamy ginger-garlic soy dressing
- Served on a bed of organic brown rice and spring mix salad
- Served with a freshly baked Sutter roll
- Beverage included

**THURSDAY 12–12:50PM**



**Scott G. McNall, Founder of the Institute for Sustainable Development**

*Inequality: Why it Doesn't Work, Can't Work, and Why It Threatens Resiliency*

Democracy and an agenda for sustainability are threatened by inequality. All humans, regardless of where they live, have basic needs that must be met if they are to be full participants in the societies in which they live. Inequality destroys human and social capital, reduces trust, weakens societies, and threatens their ability to adapt and change. The conditions that threaten our future include not just climate change but also a political agenda that seeks to destroy social safety nets while at the same time reducing environmental regulations. The political and economic forces driving an agenda that imperils all of us are outlined, and an agenda for resilience is offered.

**THURSDAY 1–1:45PM**



**Population Impacts and Solutions**

*Karen Gala Pitts, Committee for a Sustainable World Population and Overpopulation.org*

The impacts of overpopulation combined with consumption are many and catastrophic, including species extinction, hunger, strife, economic upheaval, and depletion of natural resources including water, oil, and soil. The presentation will explore some very important impacts as well as go in-depth on the solutions, which are much less difficult than people realize.



**Lake Tahoe: Jewel of the Sierras**

*Devin Middlebrook, Tahoe Regional Planning Agency*

Lake Tahoe is one of the largest, deepest, and clearest lakes in the world. Its cobalt blue appearance, spectacular alpine setting, and remarkable water clarity is recognized worldwide. Learn more about Lake Tahoe's history, the issues threatening its famed waters, and the programs aimed at addressing those issues.



**Farmers Markets as Community Events**

*Natalie Carter, Chico Certified Farmers' Market and Mark Stemen, Butte Environmental Council*

Farmers markets provide a place for the community to get fresh and local produce, but they also connect consumers with local farmers and increase social interactions within the communities. This presentation explores how the Chico Certified Farmers' Market went from a constricted and uncertain future to a secure, thriving community event.



**Why Does Our Global Consumer Need a Respectful Revolution?**

*Gerard Ungerman and Stacey Wear, Respectful Revolution*

[www.RespectfulRevolution.org](http://www.RespectfulRevolution.org) co-founders Gerard Ungerman and Stacey Wear will present their project of documenting positive actions all around the United States and will explain why they think that replacing systemic exploitation by conscientious caring and respect may hold the key to authentic sustainability.



**Bringing Solar and Social Justice**

*Hillary Tellesen and Sanja Cerni, GRID Alternatives*

GRID Alternatives will discuss volunteerism, environmental justice, and the effect of solar installation in underserved communities in a two-part presentation. Sanja Cerni will be sharing narratives of the impact of solar systems on the environment and beneficiaries. Hillary Tellesen will be explaining the role of volunteerism in the infrastructure of organizations concerned with social justice.



**A Hands-On Approach and Systems View of Food**

*Margaret Jones, GRUB*

How can we use the issues surrounding agriculture and our shared need of food to build a community that communicates and works together? What are effective ways to respond and protect ourselves from the larger issues that we face as local community members, national citizens, and citizens of the world?



**Creating the Future: Educating for Resilience Thinking**

*James Pushnik, The Institute for Sustainable Development*

Education for climate change resilience presents new opportunities for research and learning. Multidisciplinary collaboration sparks creative thinking and fresh insights that lead to innovative teaching and learning of core competencies and knowledge necessary to mitigate and adapt to the daunting challenges ahead.



**Marketing for Sustainability: How to Develop Your Social Media**

*Justin Flick, One Mile Consulting, and Alyssa Chow*

This presentation will discuss the challenges of marketing for sustainability and how to develop effective strategies. There will be a question-and-answer session afterwards.



**CSU, Chico Campus Sustainability Walking Tour, 1–2PM**

*Fletcher Alexander, Campus Sustainability Coordinator, The Institute for Sustainable Development at CSU, Chico*

This walking tour of campus will highlight sustainability efforts from LEED-certified buildings and alternative transportation initiatives to waste-diversion efforts and sustainability programming in the Associated Students, University Housing, and more. Join us and learn about sustainability on the CSU, Chico campus from the folks who work on it every day! **Meet at the north entrance of the BMU.**

**THURSDAY 2–2:50PM**



**Dennis Dimick, Executive Editor, Environmental/National Geographic**

*Stewardship in the Anthropocene*

We have transformed our finite planet—the land, seas, and atmosphere—with a seemingly infinite expansion of our dominion over Earth. Scientists and others have begun calling this new human-dominated era the Anthropocene, or "Age of Man." Trend lines show our conquest isn't sustainable, wild habitats and species are disappearing, and our planet is slowly being polluted and cooked by the effluent of our expanding aspirations. Is it possible to create a soft landing for civilization? What will it take? How can ingenuity, wisdom, and those same fossil fuels build a bridge to a sustainable future powered primarily, once again, by current sunlight?



**Environmental Sustainability in the Himalayas**

*Dr. Mohan B. Dang, California State University, Fresno, and Dr. Peter D. Stahl, Wyoming Reclamation and Restoration Center*

Blended with cross-cultural experiential learning, United States and Nepalese students spend about two weeks every summer in Annapurna Conservation Area of Nepal and present their findings to the national audience in Kathmandu at the end. In this presentation, the authors will cover the environmental challenges faced by indigenous community in Lower Mustang Valley and offer some pragmatic solutions to maintain livelihood and sustainability in the harsh mountainous environment.



**Never Enough: Politics and Water in the Owens Valley, CA**

*Jesse Dizard, CSU, Chico, Anthropology*

*Never Enough* is a cautionary tale about where California's water comes from. Aside from the technical details of reservoir site selection and the engineering virtuosity of dam and aqueduct construction, this film is concerned with putting contemporary circumstances into historical context and asks, "How did we get here?"

**Book signing at 1PM in BMU Auditorium.**



**An Assessment of the Urban Ecology of the City of Chico**

*Mark Stemen, CSU, Chico; Megan Dallas, SCOOP at CSU, Chico; Victoria Birdseye, Tina Lando, Jennifer Nixon, Alexandria Keeble-Toll, and Lee Brisbane-Ryan, CSU, Chico Students*

In the fall of 2014, students in Chico State's GEOG 506 class undertook an assessment of the urban ecology of Chico. During this session, students will present their findings on the status of Chico's creeks, trees, and fish, and tell some wonderful stories of their experiences.



**Change in the Classroom: How to Engage, Teach, and Inspire Pre K-12 Students About Sustainability**

*Daniel Maloney, Climate Corps Bay Area; Natalie Lessa, County of Alameda, Kelly Chang, Green Ninja Project; Simone Cardona, Alliance for Climate Education; and Chelsea Biklen, San Carlos & Milbrae School District Office*

What would successful adaptation to climate change look like in the classroom? Join us to discover ways to communicate and engage students, teachers, and principals effectively in climate adaptation. The panelists have firsthand experiences working in programs like transportation, composting, recycling and electricity in preschools, middle schools, and high schools.



**No Box Left Behind**

*Biz Debnath, Give Back Box*

With the Internet ever-growing, e-commerce companies pose a major problem with the growing number of cardboard boxes they are using to ship their products. These boxes usually find their way to landfills and damage the planet. Give Back Box provides an innovative way not only to keep the boxes out of landfills but help millions in need in the process.



**How Does Information About Genetically Modified Organisms (GMOs) Influence Knowledge and Attitudes of College Students**

*Maria Giovanni and Chin-Fu Chen, CSU, Chico Department of Nutrition and Food Science*

Few Americans are knowledgeable about GMOs. An online survey assessed the impact of a brief informational and participatory classroom activity. Changes in both knowledge and attitude were found, with many students wanting to become more informed. These results will help the public make educated decisions about GM food.



**Where Are We On The Way To Sustainability?**

*Stephen I. Feher, Sustainable Community Development Institute; Scott G. McNall, Founder of the Institute for Sustainable Development and Co-Founder of This Way to Sustainability Conference*

This presentation will discuss the most critical global challenges facing us over the next 50 years, focusing on the ample supply of energy, water, and food to meet the needs of the growing world population. It will also review the progress made over the past 10 years and what the future might look like. It will conclude with an optimistic view of what we must do to play the future safe.

**SCOOP Sustainable Consultations of Office Practices**



SCOOP is a student organization working with offices on campus to assess current office practices and make recommendations for improvements. This student project began in 2007 with students performing office energy audits and comprehensive sustainability consultations.



**Dune Lankard, National Athbaskan Eyak from the Copper River Delta of Alaska**

*The Green Race: Building Positive Sustainable and Resilient Communities for Our Future*

The world economy and environment is changing at such a rapid rate that we as a human race need to re-define what is important to us and necessary. We have to be aware and dedicated in order to thrive and coexist in a world where fresh air and clean, healthy water is traded in for profits, and where ocean acidification and loss of critical habitat could lead to chaos and mass extinction in our lifetimes. Although this is a serious and perilous topic, Dune has amazing experiences and successful outcomes, and he wants to share ideas and stories about what's possible and is happening during these earth-changing times. The race to be green is on, so come on board!

**SUSTAINABILITY FUN FACTS:**

CSU, Chico's award-winning residence hall move-out waste-diversion program, Diversion Excursion, diverts over 20,000 pounds of material from the landfill every year. In 2014 those numbers were nearly doubled!

Previous Years Totals:

- 2006: 15,199
- 2007: 17,372
- 2008: 17,248
- 2009: 18,756
- 2010: 20,448
- 2011: 21,547
- 2012: 20,803
- 2013: 18,680
- 2014: 34,796**

With a reduction of over 12 percent from their baseline, the residents of Shasta and Lassen Halls beat out peer competitors at 10 UC and CSU campuses. CSU, Chico took first place in the California PowerSave League for the Campus Conservation residence hall energy reduction competition last year. CCN is the largest electricity and water reduction competition program for colleges and universities in the world.



**Rebuilding the American Hempire**

*Jake Wade, Parallel Revolution*

Come join Jake Wade for an interactive, tangible, and memorable presentation on industrial hemp and its role in the renewable revolution. Through little-known facts, demonstrations, and comical stories from the front lines of the hempire, prepare to expand your knowledge of America's heritage crop. Help him, hemp you!



**How the Use of Real-Time Energy Monitoring Can Help You Achieve Your Organization's Sustainability Goals**

*Lalanya Rothenberger and Julia Kistle, Chico Unified School District; Tino Nava, PG&E; and Kayla Mahoney, Lucid*

Chico Unified School District (CUSD) is working with PG&E and Lucid to launch a new program to raise awareness surrounding energy consumption, with the end goal of energy reduction and conservation. This technology will allow CUSD to monitor and analyze data for trends, recognize areas where improvements can be made, and provide effective educational material to engage occupants and change their behavior.



**Pioneers for Change: Creating Action Through Collaboration**

*Jillian Buckholz, Geneva Easton, Fahimeh Hooshmand, Megan McAndrews, Mercedes Ruiz, Ainsley Shallcross, Ryan Tayahua, and Brittney Wallace, CSU, East Bay*

This session will highlight the unique collaboration between the Center for Community Engagement and the Office of Sustainability at California State University, East Bay to enhance the existing Pioneers for Change (Pfc) service-learning program. Attendees will learn the details of this partnership and project highlights from Pfc Sustainability Track interns.



**Resilient Communities Based on High Energy-Return on Energy-Invested Power Sources**

*Richard McDonald*

Energy sources with high energy return on energy invested (EROEI) are needed to provide energy, food, and water to sustain resilient communities. The common renewables, solar PV and wind, will not suffice because their EROEI is simply too low. "Nucleoculture" will be discussed as a possible answer.



**Campus as a Living Lab: Designing CSUN Tree Walking Tours**

*Mario Giraldo and Helen Cox, CSU, Northridge*

We created a self-guided virtual tour that includes 78 different tree species profiles organized in four different walking routes that will lead the user on an educational discovery tour contributing to the effort of making CSU, Northridge a living lab and classroom.



**The Oakmont Veteran Victory Garden Project**

*Veronica Van Cleave and Danielle Adler, CSU, Chico*

The Oakmont Victory Garden Project presentation features a small communal garden at a senior retirement community called "The Oakmon" in Chico. This garden was a vision that came to life thanks to a grant from AS Sustainability, the organized help of Chico State students, and the support of the community.



**What's Burning in Chico?**

*Diana Flannery, CSU, Chico, Jim Wagoner and Armen Kamian, Butte County Air Quality Management District*

This panel will discuss air-quality issues in Chico, attitudes and behaviors associated with wood smoke pollution based on a local 2014 survey, and ways our community is becoming more resilient in protecting the health of its citizens.



**Higher-Ed Greenie Awards**

*Projects will be on display from 9–11AM. Winners will be announced at the awards ceremony from 11–11:30AM.*

The annual This Way to Sustainability Conference Greenie Awards will recognize nominated student groups from higher education schools across **North State colleges and universities** for their accomplishments in the field of sustainability. The top finalists will display their projects in the BMU where voting will take place.

Conference participants will have the opportunity to vote for the winners within each category on Friday, March 27, 2015 from **9–11AM**. First-second-and third-place winners will be announced at the **awards ceremony between 11 and 11:30AM** in the BMU Auditorium.



**BMU 203**  **Open Conversation with Eyak Alaskan Social Entrepreneur Dune Lankard**  
*Dune Lankard, Native Athabaskan Eyak from the Copper River Delta of Alaska*


Since the 1989 Exxon Valdez oil spill, Dune has been recognized as one of *Time Magazine's* "Hero's for the Planet" and for his creative abilities to link cultural, social, environmental, and economic solutions. Come join an open discussion about the current state of the world and share your ideas to address these challenging and earth-changing times.

**BMU 204**  **The New Aesthetic: Landscapes That Benefit People, Profit, and the Planet**  
*Michael Cook and Greg Melton, Melton Design Group*


This presentation will showcase what the future of California landscapes will look like—landscapes that are not only beautiful but are also good for people, profit, and the planet. We like to call it "the New Aesthetic."

**BMU 209**  **Students, Sustainability, and STARS: Campus as a Living Lab**  
*Paul Draper, Dustin DeMatteo, Kara Kelly, Allison Jenks, and Claudia Sisomphou, Sonoma State University*

Four student leaders in sustainability at Sonoma State University discuss their independent study helping to develop SSU's protocol for completing an AASHE Stars Report. They describe experiences at the AASHE Conference in Portland, mentorships with faculty and staff, and challenges encountered documenting the university's approaches to achieving a sustainable campus.

**BMU 210**  **Case Study: Local Government and Sustainability in the Bay Area**  
*Amanda Leonis, City of Cupertino/Climate Corps Bay Area; Jacki Falconio and Emi Hashizume, San Mateo County/Climate Corps Bay Area*

Case Study: Local government in the Bay Area's approach to implementing behavior change programs to support sustainability initiatives and emissions reductions. This presentation will focus on green business practices and energy-saving techniques that contribute to a healthier community.

**BMU 211**  **SCOOP (Sustainability Consultations of Office Practices) at CSU, Chico**  
*Megan Dallas, Shea Arceo, Rachel Zunino, Nathan Furey, Yurie Ansley, SCOOP at CSU, Chico*


Sustainability Consultations of Office Practices (SCOOP) is a student organization working with offices on campus to assess current office practices and make recommendations for improvements. SCOOP provides sustainable consultations to help all campus departments and offices to learn and take charge in new sustainability techniques to start saving money and energy.

**BMU 303**  **The Mushroom Cloud Effect**  
*Kevin Foley, Premier Mushrooms Inc.*

Sustainability in agriculture presents both a huge opportunity and a great challenge. This presentation will cover the basic mushroom growing process and then dive deeper into the sustainability program on-site. It will discuss the programs origins and where they began.

**BMU 203**  **José G. González, Founder-Director of Latino Outdoors**  
*Yo Cuento: Storytelling for Inclusion and Connecting With Communities*

Join us to identify the stories and narratives embedded in the work we do as conservationists and how they connect, or disconnect, with different communities. Find ways to connect the power of stories to validate community experiences and how they relate to the science and sociology of how communities connect with nature and the outdoors. We'll reflect on examples of cultural relevancy and how stories are entry points for discussions of bias, privilege, diversity, and inclusion.

**BMU 204**  **Subsistence Not Desertification**  
*Brien Brennan, Elder Creek Center for the Land*

Agriculture feeds humans now, but it simultaneously undermines our future. Even without the global climate disaster, most of California's desertification would be due to agricultural practices that deplete soil and water cycles. This must transition to a subsistence food system based on acorns and pastoralism requiring oak woodland restoration.

**BMU 209**  **Awareness-Based Relations**  
*Adam Moes, Sky Creek Dharma Center*

This workshop will offer an overview of techniques that will allow you to discover even greater places of peacefulness and calm within yourself; as well as ways of enjoying your own thoughts and emotions to create and maintain healthier, happier relationships.

**BMU 210**  **Growing Cities**  
*Moderated by Mark Stemen, Geography and Planning at CSU, Chico*

*Growing Cities* is a documentary film that examines the role of urban farming in America and asks how much power it has to revitalize our cities and change the way we eat. The film follows two friends on their road trip across the country as they meet the people who are challenging the way this country grows and distributes its food—from those growing food in backyards to make ends meet; to educators with the goal of teaching kids to eat better; to activists seeking a meaningful alternative to the industrial food system, and more.

**BMU 211**  **Effect of Biochar on Soil-Water Relations and Raphanus Sativus Growth Under Greenhouse Conditions**  
*Tina Candelo Mize, CSU, Chico*


Biochar, a porous carbon-rich material, has been considered as an acceptable source of recalcitrant soil carbon. A greenhouse trial was conducted to observe the effect of potting media amended with *Pinus taeda* biochar, compost, and rice hulls had on water holding capacity, infiltration, pH, and growth performance of radishes (*Raphanus sativus*).

**BMU 100**  **Local Lunch Buffet**  
*Fee: \$13 (Purchase ticket online during conference registration process)*


Starting at 11:30AM, a local lunch will be served buffet style in the Bell Memorial Union. Advance registration and payment for this lunch is required.

Tri-Tip Steak Salad


- Local spring mix salad with a balsamic vinaigrette, fresh beets, asparagus, tomatoes, and assorted seasonal vegetables
- Certified organic gluten-free pesto pasta made with quinoa
- Freshly baked Sutter roll
- Beverage included
- Niman Ranch sliced steak served on the side

**BMU 100**  **Anne Waple, Second Nature**  
*Thresholds of Change: Creating Positive Impact in a Changing Climate*

This presentation will address how creating a leadership network, and crossing a threshold of participants, can spur a broader change. We will also address how climate thresholds themselves have influenced action, and how action itself is evolving and becoming 'mature' at a variety of levels.

**BMU 203**  **Meet Me at the Salad Bar: Edible Education in High School**  
*Alysa Wylie, Center for Healthy Communities; Paul Olson, Butte County Office of Education; with students from Las Plumas High School*

Sustainability strategies with local high school students who cultivate and support their program by selling native plants for habitat restoration, and vegetable starts to community gardens. The Center for Healthy Communities (formerly Center for Nutrition and Activity Promotion) will discuss engaging future food literate children by implementing a Kids Farmers Market and sharing nutrition education. Build momentum with visible success: conversation will include tips to get started and possible barriers along the way.

**BMU 204**  **Water Wars**  
*Amanda Carpenter, Taylor Wetzel, CLIC (Community Legal Information Center), Norma Ramirez, CLIC, Rebecca Rouse, CLIC, Jack Russek, CLIC*

The war for the leftover water may be among us. So how can we prevent it? What are the solutions? How has the law handled it? Student interns of the Community Legal Information Center's Environmental Advocates department will present information on how to address these questions and much more.

**BMU 209**  **Mushrooming Success**  
*Devin Middlebrook, Environmental Education Specialist, Kevin Foley, Sustainability Coordinator, Amanda Leonis, Sustainability Specialist, Kerrie Feil-Olsen, Project Administrator, Diana Flannery, Health and Community Services Department (HCSV 362), and Angela Casler, Minor in Managing for Sustainability Coordinator, Department of Management (MGMT 460)*

Join this panel of students, faculty, and alumni to learn about gaining a competitive advantage with an education that sets you up for success. From the GE Pathway, Minor in Sustainability, and the Minor in Managing for Sustainability to student organizations, CSU, Chico ensures you are prepared for your career.



BMU 210

### What the Frack? How a Grassroots Citizen Group Went Up Against the Energy Industry's Well-Funded Lobbyists and Lawyers

*Robyn DiFalco, Butte Environmental Council; Joni Clark Stellar and Dave Garcia, Frack-Free Butte County*

This is the story of local citizens working to ban fracking in Butte County. Learn about hydraulic fracturing for natural gas in the North State, local efforts to ban it, and the setbacks and victories faced by grassroots organizers when the energy industry got involved to defeat them.



BMU 211

### Walkable Cities: An Anthropological Perspective

*David Eaton, Department of Anthropology at CSU, Chico*

Illustrated by field research photographs from beautiful walkable cities in India, Ethiopia, southern Italy, and Spain, this session looks anthropologically at the embodied experience of urban life, as understood in comparative and historical light. We'll also consider several U.S. cities, ending with a focus on Chico and its possible futures.



BMU 303

### Enhancing Sustainable Farming Practices in Nut Crops

*Elizabeth Boyd, College of Agriculture at CSU, Chico*

Almonds, pistachios, and walnuts share a common pest: navel orangeworm (NOW). Each year, multiple efforts are made to limit the damage caused to the crop by this moth pest. Recent research examined a new sustainable method for monitoring and managing NOW that enhances current farming practices. Details will be discussed.



BMU 304

### Effects of Protection from Grazing on Foundation Species

*Dr. Jada-Simone White and Dr. Paul Maslin, CSU, Chico*

Coral reefs and oak woodlands function as foundation species by providing habitat to many species throughout their long life cycles. Research indicates that long-term changes in community dynamics resulted in reduced recruitment for both juvenile corals and oak saplings. Restoration experiments documented resiliency of these important ecosystem engineers



BMU 312

### FoodCorps

*Shannon McDowell and Emily Koller, FoodCorps*

FoodCorps is an independent non-profit that consists of a nationwide team of AmeriCorps leaders who work to connect kids with real food and help them grow up healthy. FoodCorps overarching goal is to create a sustainable and healthy environment for ourselves and our next generation.



BMU North Entrance

### Explore the Eco-Region Native Plant Garden of Gateway Science Museum

*Jennifer Jewell, Luann Manss, Gateway Science Museum, Gateway Gardens*

Explore Gateway Science Museum's Gateway Gardens. The gardens showcase eco regions, California native plants and habitats. During the tour, learn about sustainable landscaping and gardening, drought-tolerant native plants, and supporting pollinators. The cost of the Gateway Gardens tour is free with proof of This Way to Sustainability X registration. **Meet at the North Entrance of the BMU**



BMU 100

### Patricia Dutcher, Environmental Research Specialist

*Building Resilient Communities Through Community-Based Research*

This presentation describes case studies of local perspectives on water, energy, and climate. Patricia Dutcher will discuss how local views can contribute to the policy and technology developments needed to promote community resiliency and sustainability on a larger scale.



BMU 203

### Life After Oil: Visions of a Post-Petroleum World

*Mark Stemen, Kaitlin Haley, Jennifer Nixon, CSU, Chico*

The popularity of apocalyptic televisions shows like *The Walking Dead* reflect rising social anxiety. James Kunsler and John Michael Greer have written both fiction and non-fiction works covering the period of "the long decent." Kaitlin Haley and Mark Stemen have read several and they will share their perspectives from anthropology and history.



BMU 204

### SCOOP Alumni in Green Careers

*Megan Dallas, SCOOP; Kerrie Rose Feil-Olsen, Alternative Energy Systems Inc.; Amanda Leonis, City of Cupertino; Devin Middlebrook, Tahoe Regional Planning Agency; and Anthony Capone, Method360*

SCOOP is a student organization working with offices on campus to assess current office practices and make recommendations for improvements. During this presentation, SCOOP alumni will be returning to CSU, Chico campus to discuss their careers.



BMU 209

### Water for All

*Nelson Mmbando, Robert King'ori, and Austin Bono, UniTan Aquafarms*

Unitan Aquafarms goal is to help eradicate food scarcity in East Africa, our main focus being Tanzania and Kenya. UniTan Aquafarm is focused on merging resource consumption and to start a new era for both third world countries and developed countries.



BMU 210

### What Is the Best Way to Produce Energy?

*Dr. Divan Fard, David Parker, Laura Bleeker, Brittany Light, and Lindsey Matheney, Shasta College*

There are currently four different views about energy. A panel of four students have studied the following questions and would like to present their view on: 1) New design of molten salt nuclear reactors which claim to reduce the nuclear wastes by 90 percent. 2) "Prescription for Plant," claims the answer to future is only nuclear energy. 3) Nuclear energy is not the solution. 4) Renewable energy is the only clean energy.



BMU 211

### Cyclotopia Chico and the Twilight Sprawl

*David Eaton, Department of Anthropology, CSU, Chico*

We'll begin with an anatomy of 'sprawl,' to share a toolkit of ideas about existing cities, drawing from key texts in the New Urbanism movement. We then examine international urban cycling revolutions that can help guide Chico toward a 'cyclotopia' of sustainable infrastructure, including ideas and gear from our region.



BMU 303

### Why Ag-Gag Laws are Dangerous and Un-American

*Robert Jones, CSU, Chico*

Recent ag-gag laws make any undercover video recording of animal cruelty on factory farms illegal. Yet these laws threaten not only animal welfare standards, but the environment, food safety, workers' rights, and free speech. In this presentation, Robert Jones argues that ag-gag laws are dangerous and un-American.



BMU 304

### Poverty as an Issue of Sustainability

*Susan Roll, Laurie Brown, and Ellie Ertle, CSU, Chico*

Poverty is inextricably tied to a sustainable future. The Chico State-Butte College Impact Lab on Economic Inequality is one of a cohort of national college partnerships working together to study the connections between inequality, economic opportunity, and social mobility. Come discuss how we understand poverty as an issue of sustainability.



BMU 312

### Grow-Cook-Eat: Sherwood Montessori's Sustainable Cookbook

*Richie Hirshen and Michelle Yezbick, Sherwood Montessori Charter School*

The program incorporates six central elements as a sustainable model: a school production vegetable garden; 100 percent vegetarian cooking classes; an every-Friday after school farmers market; journalism/publishing; philanthropy; and community outreach.

**Book signing at 1pm in BMU Auditorium.**



BMU 100

### Marissa Mommaerts, Communications Manager at Transition US

*A Resilient Response to Our Planetary Crisis*

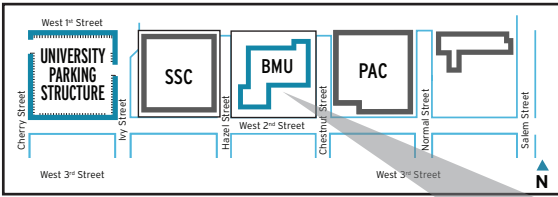
We live in uncertain times, but across the country and around the world people are taking practical, creative action to slow climate change and regenerate communities and ecosystems, at the same time building resilience to the converging ecological and economic challenges we face. From learning how to work with nature and getting to know our neighbors to reclaiming the commons and re-thinking our economy, learn about practical and inspiring models for sustainability that can truly change the world.



### Environmental Coalition Community Gathering

*C.A.R.D. Center, 545 Vallombrosa Ave, Chico*  
For more information, please contact Butte Environmental Council staff  
at 530-891-6424 or visit [www.becnet.org](http://www.becnet.org)

This event brings together local environmental organizations and their supporters for a night of conversation and celebration. By gathering together we hope to strengthen relationships and improve communication between the organizations to develop more viable strategies and alliances for a safer, healthier, and more vibrant community.



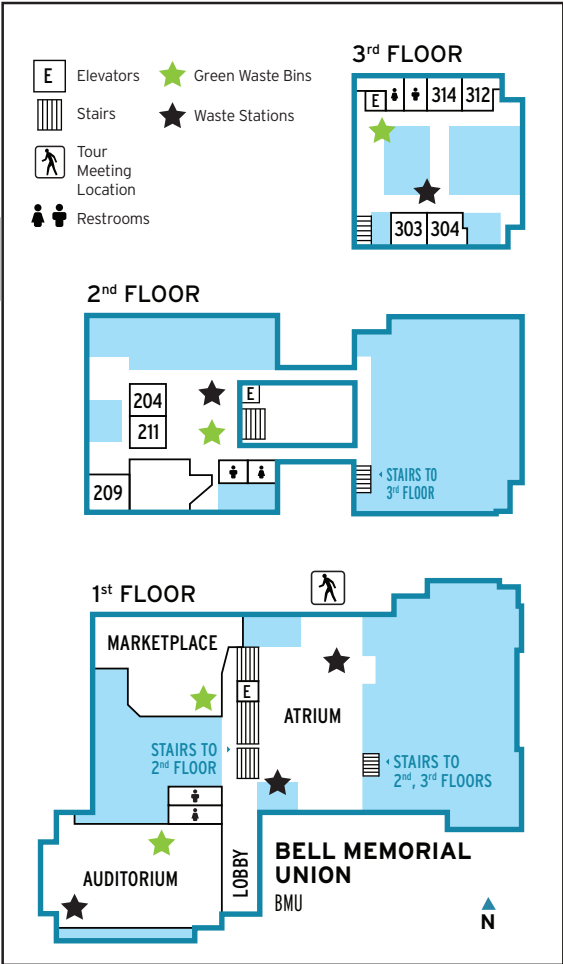
For the first time in TWTS conference history a waste audit is being done to calculate how much waste is produced during Thursday and Friday. We are striving for a zero waste, which is 90% diversion away from the landfill. Please dispose of all waste at the designated waste stations. Thank you!

**CONFERENCE HOSTS:**



Rawlins Endowed Professorship

**CONFERENCE SPONSORS:**



**P** Parking Information

Special-rate conference parking is available at the University Parking Structure located at Second and Cherry Streets, third floor and "G" spaces only. Purchase a ticket at **only** the third floor dispenser using code **326** Thursday and Friday for a special conference rate of \$3 per day. Cash or coin payments must be exact. Visa and MasterCard are accepted. Please **do not** park in any stall marked Reserved. Parking lots are enforced 7:30AM–10PM. 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/](http://www.csuchico.edu/arc/).