This Way to

Sustainability® 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.
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

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

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*Separate fees apply.
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:

- Provided recycling and compost bins throughout the conference.
- Printed posters and programs on Green Seal Certified “Environment” paper, made from renewable energy and containing 100% post-consumer chlorine-free fiber.
- Provided only reusable and compostable dish ware at all meals.
- Limited meat choices and offered vegetarian and vegan options for conference meals.
- 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.
- Created and encouraged a carpooling system using Zimride.
- Implemented waste audit to track and measure waste the conference uses.
- Collected all food waste during meal preparation for composting.
- Conscious chose foods that were seasonal, local, and organic when possible, including produce from our own University Farm.
- Used bulk condiments (no single servings).
- Collected all food waste during meal preparation for composting.
- Provided options for moderators to limit light during sessions.
- Obtained all food from the greater North Valley when possible.
- 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.

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, Alyssa Kammerneyer, Fletcher Alexander, Colleen Hatfield, Nate Millard, Courtney Silver, Kevin Killion, and Tim Sistruink

TOUR: Compost Display Area

Lindsay Rotbunt, 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.

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.

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.

• Fusion Chicken Bowl: Grilled Mary’s Free Range Chicken served with Dakan sprouts, avocado, organic carrots, and cucumber slices served on a bed of organic brown rice and spring mix salad Drizzled with a creamy ginger garlic soy dressing.
• Served with a freshly baked Sutter roll.
• Beverage included.

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

Scott G. McNall
Founder of the Institute for Sustainable Development

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

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

Stewardship in the Anthropocene
Dennis Dimick
Executive Editor, Environment/ National Geographic Magazine

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 been 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 can 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

The Green Race: Building Positive Sustainable and Resilient Communities for Our Future
Dune Lankard
Native Alaskan Eyak from the Copper River Delta of Alaska

The world economy and environment is changing at such a rapid rate that, as a human race we 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 11–11:45AM

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

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 relevance and how stories are entry points for discussions of bias, privilege, diversity, and inclusion.

FRIDAY 11–11:45AM

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–1 PM

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

Local Lunch Menu

- Tri-Tip Steak Salad
- Local spring mix salad with seasonal vegetables, tomatoes, and assorted fresh beets, asparagus, quinoa and homemade pesto pasta made with canned tomatoes, and assorted seasonal vegetables.

- Beverage included

FRIDAY 12–12:50AM

Thresholds of Change: Creating Positive Impact in a Changing Climate
Anne Waple
Second Nature

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.

Higher-Ed Greenie Awards
Poster Competition Presentations 9–11 am, Voting Open Until 11 am 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, 9–11 am. First-second-and third-place winners will be announced at the awards ceremony between 11–11:30 am in the BMU Auditorium.

Additional fee of $13 per person.

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

Local Lunch Menu

- Tri-Tip Steak Salad
- Local spring mix salad with seasonal vegetables, tomatoes, and assorted fresh beets, asparagus, quinoa and homemade pesto pasta made with canned tomatoes, and assorted seasonal vegetables.

- Beverage included
Tour: Gateway Science Museum—Explore the Eco Region Native Plant Garden of the Gateway Science Museum

Jennifer Jewell, LuAnn Manas, 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.

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.

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.

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 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.

Food and Ag Forum: Progressive Farming Practices and Policies

Lee Allen, CSU, Chico; Tax Kippenshick, Golden Star Farm Credit; Josh Duvvuri, UC Cooperative Extension; and Francisco Frenche, Center for Costa Rican Development (CECRO)

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 can contribute to the culture, security, and resiliency of the community. A diverse panel of agriculturists will share perspectives and promote a discussion about how current trends in food production relate to community resiliency.

A Fresh Look at Food Security

Alícia Bedore and Judy Hermanow, 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, unbiased facts about this food security safety net. Information will be provided on the benefits of using local resources and creating sustainable environments.

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

Jake Brinkman, College of Agriculture at CSU, Chico; and Faucil Flick, Northern Regional Lead Farmer

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.

Local Responses to the On-Growing Drought

Vicki 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.

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.

Case Studies in Seed Funding: Revolving Energy-Efficiency Funds

Elisa Fava and Skype 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).

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

Justin Flick and Mary Manouse

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.
The Little Engine That Could: Carbon Fee and Dividend
Peter Joseph, Citizens’ Divina Looby
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.

Ancient and Modern: The Sacred Nature of Water Living Community Challenge
Susan Rainier, Eagle Consulting
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.

Outdoor Education for All! A Collaborative Case Study of Collaboration in Butte County
Mark Jacotte, Outdoor Education for All (OEA); Art Stephens and Nate McKain, OEA; Mary Anne Pella-Donnelly, and Shannon Johnson–Moderated by Jiff Matt
Learn new cooperative, interdisciplinary models for communities to provide outdoor and place-based education to improve environmental resiliency for current and future generations.

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 available through the Rawlins Endowed Professorship, Conference Sponsor.

Compost Display Area
10–11:30am
Jodie Robbatt, AE Sustainability	Compact 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.

Cosmic Montessori and Interconnectedness: An Educational Journey Toward Sustainability
Tanya Faris, 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.

Are You a Radical? Discussion on Varying Theories of Change
Kevin Kilmer, 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.

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.

The Sustainable Commute: Inspiring Daily Transportation Behavior Change in the Bay Area
Rick Brown and Dennis Raske, Capital Cogeneration and Powers Authority; Erica Ter, Alameda County General Services Agency; and Christopher Kelt, 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.

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.

Divestment From Fossil Fuels
Kevin Kilmer and Kathie Hagen, 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.

Drought Is the New Normal: Living Within Our Mean In California
Robin del Valle and Carol Perkins, Butte Environmental Council; and Marty Shively, 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.

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.

SPECIAL EVENT
Hydrogarden Workshop $15
Facilitated by Michael Hasey, The Farming Fish
(Sponsored by Ag Mart Inc.)
Separate line 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 supplier 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.

K–12 Greene 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 Greene 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.
Local Lunch Buffet
Fee: $13
(Purchase ticket online during conference registration process)
Starting at 11:30 a.m., 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
• Okinawan sprouts, avocado, organic carrots, and cucumber slices
• Served on a bed of organic brown rice and spring mix salad

• Drizzled with a creamy ginger-garlic soy dressing
• 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 Resilience
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 1–1:15pm

Population Impacts and Solutions
Kevin Galvin Potts, Director for a Sustainable World Population and Repopulation.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 indepth on the solutions, which are much less difficult than people realize.

THURSDAY 1–1:45pm

Lake Tahoe: Jewel of the Sierras
Dave 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
Natasha Carter, Chico Certified Farmers’ Market and Mark Seaman, 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 successful, thriving community event.

Why Do Our Global Consumer Needs a Respectful Revolution?
Gerard Ungarman and Stacey Riker, Respect/Revolution
www.RespectRevolution.org co-founders Gerard Ungarman and Stacey Riker will present their project of documenting positive actions all around the United States and will explain why they think that replacing systemic exploitation with conscious caring and respect must form the core of authentic sustainability.

Bringing Solar and Social Justice
Hilary Telfesen and Sanja Cerni, GRID Alternatives
GRID Alternatives will discuss voluntarism, environmental justice, and the impact 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. Hilary Telfesen will be explaining the role of volunteers in the infrastructure of organizations concerned with social justice.

A Hands-On Approach and Systems View of Food
Margaret Jones, GRID
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
Jaime Puckett, 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
Martin Pick, One Mile Consulting, and Alpaca Show
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 CSU, Chico campus from the folks who work on it every day! Meet at the north entrance of the BMU.

Environmental Sustainability in the Himalayas
Dr. Megan B. Rupp, California State University, Fresno, and Dr. Robert F. Baril, Monterey 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 Duarte, CSU, Chico, Anthropology
Never Enough is a cautionary tale about how 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 3:45 in BMU Auditorium.

An Assessment of the Urban Ecology of the City of Chico
Mark Stewart, CSU, Chico, Megan Nadeau, PhD, City of Chico
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.

Dennis Dimick, Executive Editor, Environmental/National Geographic
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?

Change in the Classroom: How to Engage, Teach, and Inspire Pre K-12 Students About Sustainability
Daniel Maloney, Climate Corps Bay Area, Natasha Lessa, County of Alameda, Kelly O’Grady, Grace Nyi, Rachel Birdsey, Tina Lando, Jennifer Nixon, Alexandria Keeble-Toll, and Lee Brouillet-Ryan, CSU, Chico Students
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 effecttively in climate adaptation. The panelists have firsthand experiences working in programs like transportation, composting, recycling and electricity in preschools, middle schools, and high schools.
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
Mario Giraldo and Helen Cox, CSU, Chico, California Department of Nutrition and Food Science

Few Americans are knowledgeable about GMOs. An online survey assessed the impact of a brief informational reading on this knowledge. 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 J. Kyle, Sustainable Community Development Institute; Scott G. McNall, Founder of the Institute for Sustainable Development and Co-Founder of This Way to Sustainability

This presentation will discuss the most critical global challenges facing us over the next 50 years, focusing on the needs of the growing world population. It will also review the challenges facing us over the next 50 years, focusing on the need to keep the boxes out of landfills but help millions in need in the process.

SUSTAINABILITY FUN FACTS:
CSU, Chico’s award-winning residence hall move-out waste-diversion program, Diversion Excursions, 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: 18,796
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.

Dune Lankard, National Athabaskan Eyak from the Copper River Delta of Alaska
The Green Race: Building Positive 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-design 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 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 happening during these earth-shaking times. The race to be green is on, so come on board!

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 hemping, 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
Laura Snyder, California State University, Fresno; Mike Hark, PG&E; and Fabian Maloney, 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
Dr. John Backwell; Gennaro Easton; Catherine Hoehn; Megan McAndrews; Marcella Ruiz; Angela Shalvoyres; Ryan Stephans; and Brittany 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 (PPC) service-learning program. Attendees will learn the details of this partnership and project highlights from PPC Sustainability Track intern.

Resilient Communities Based on High Energy-Return on Energy-Invested Power Sources
Richard McDowell

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

No Box Left Behind
BZ D’Antoni, 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.

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Open Conversation with Eyak Alaskan Social Entrepreneur Dune Lankard
Dune Lankard, Native Alaskan 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 “Heroes for the Planet” and for his creative abilities to link cultural, social, environmental, and economic solutions. Join him for an open discussion about the current state of the world and share your ideas to address these challenging and earth-changing times.

The New Aesthetic: Landscapes That Benefit People, Profit, and the Planet
Michael Eck 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.”

Students, Sustainability, and STARS: Campus as a Living Lab
Paul Draper, Dustin DelMarino, Kara Kelly, Allison Jones, and Claudia Sciarrocco, 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.

Case Study: Local Government and Sustainability in the Bay Area
Amanda Lewis, CB of Gaetz, Donal辞 Creek Bay Area
Jack Fabales and Eric Nadfton, San Mateo County Chrisdale Creek 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.

SCoop (Sustainability Consultations of Office Practices) at CSU, Chico
Megan Dallas, Shae Aran, Rachael Jensen, Nathan Furey, Yuva Asley, SCOOP at CSUL, 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.

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.

FRIDAY 11–11:45AM
José G. González, Founder-Director of Latino Outdoors
Yo Guante: Storytelling for Inclusion and Connectivity 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.

Substitution Not Desertification
Brian Brown, Euler 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.

FRIDAY 10–10:45AM
Awareness-Based Relations
Adair Mues, 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.

Growing Cities
Moderated by Mark Smeian, Geography and Planning at CSUL, 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.

Effect of Biochar on Soil-Water Relations and Raphanus Sativus Growth Under Greenhouse Conditions
Kevin Foley, Premier Mushrooms Inc.
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).

Local Lunch Buffet
FRIDAY 11:30AM–1PM
Meet Me at the Salad Bar: Edible Education in High School
Ava-Wylie Carter, 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 local high school students who cultivate and support their program by selling native plants for habitat restoration, and vegetable starts to local high school students who cultivate and support their program by selling native plants for habitat restoration, and vegetable starts to local high school students who cultivate and support their program by selling native plants for habitat restoration, and vegetable starts to local high school students who cultivate and support their program by selling native plants for habitat restoration, and vegetable starts to local high school students.

Mushrooming Success
Dave Molokaiwau, Environmental Education Specialist
Kris Felker, Sustainability Coordinator; Amanda Lewis, Sustainability Specialist; Karna Fall-Olson, Project Administrator; Diana Pinnion, Health and Community Services Department; Angela Carter, Minor in Managing for Sustainability Coordinator Department of Management (BMGT 485)
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.
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.

Walkable Cities: An Anthropological Perspective
Dr. Jada-Simone White and Dr. Paul Maslin, CSU, Chico

This 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/publication; philanthropy, and community outreach.

Book signing at 1 pm in BMU Auditorium.
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:

Our Sustainable Future
ASSOCIATED STUDENTS, CSU, CHICO

CONFERENCE SPONSORS:

LUNDBERG
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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/.

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