

CONNECTING THE NORTH STATE • CALIFORNIA STATE UNIVERSITY, CHICO

THIS WAY TO
SUSTAINABILITYSM
CONFERENCE VII
PROGRAM



Welcome to the This Way to Sustainability Conference VII at California State University, Chico!

This conference is hosted by the Institute for Sustainable Development at CSU, Chico and the Associated Students of CSU, Chico.

We hope these next few days bring together people who care deeply about the future of the North State and our planet, to learn about pressing sustainability issues and to create a space for dialogue and action. A great effort has been made to establish sessions that cover a broad range of sustainability topics as well as put sustainability first in the conference operations. Enjoy the conference, and thanks to all of you who have made this possible.

GREENING OF THE CONFERENCE

Sustainability is the common thread through the conference content and operations. We have accomplished the following to make this conference as sustainable as possible:

- Asked presenters to limit paper handouts during sessions
- Limited 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
- Provided only reusable dishware 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 (except coffee) from the greater North Valley
- Posted accessibility information for people with disabilities
- Suggested participants stay in downtown Chico so they are within walking distance of the campus
- Provided participants free bus rides to tours when possible
- Provided recycling bins throughout the conference
- Collected all food waste during meal preparation for composting
- Provided no single-use items: china, cloth linens, and metal utensils only
- Provided compost bins
- Provided options for moderators to limit light during sessions
- Limited meat choices and offered vegan options for reception and student celebrations
- Removed trash cans from session rooms to encourage zero waste

This Way To
Sustainability™ VII



**BALANCING ECONOMICS,
THE ENVIRONMENT &
SOCIAL EQUITY**



**BUSINESS & GREEN JOB
OPPORTUNITIES**



CAMPUS BEST PRACTICES



ENERGY/SOLAR



KEYNOTE SPEAKERS



SUSTAINABLE CURRICULUM



**SUSTAINABLE FOOD
PRACTICES & AGRICULTURE**



SUSTAINABLE LIFESTYLES



TOURS



WATER ISSUES



FEATURED FILMS

AT A GLANCE SCHEDULE

THURSDAY, MARCH 1, 2012

	8:00 AM–9:00 AM	Check-in and Continental Breakfast BMU Lobby and Auditorium—don't forget your mugs!
pg.14	All Day	TOUR—Green Living Project Soltrekker RV
pg.14	All Day	TOUR—Big Chico Creek Ecological Reserve
pg.14	9:00 AM–10:30 AM	TOUR—University Farm/Dairy & Organic Vegetable Project
pg.14	9:00 AM–10:30 AM	TOUR—Computers for Classrooms
pg.03	9:00 AM–9:50 AM	Concurrent Sessions
pg.03	10:00 AM–10:50 AM	Concurrent Sessions
pg.04	11:00 AM–11:50 AM	Concurrent Sessions
pg.14	11:00 AM–1:30 PM	TOUR—Sierra Nevada Brewing Co.
	Noon–1:30 PM	Lunch on your own
pg.04	12:15 PM–1:15 PM	Green Career Forum
pg.05	1:30 PM–2:45 PM	Concurrent Sessions
pg.14	3:00 PM–3:50 PM	TOUR—CSU, Chico Campus Sustainability Tour
pg.06	3:00 PM–3:50 PM	Concurrent Sessions
pg.06	4:00 PM–5:15 PM	KEYNOTE—Dr. Wallace J. Nichols
pg.15	6:00 PM–10:00 PM	Welcome Reception & Awards Ceremony— <i>RSVP Required</i>

FRIDAY, MARCH 2, 2012

	8:00 AM–9:00 AM	Check-in and Continental Breakfast BMU Lobby and Auditorium—don't forget your mugs!
pg.14	9:00 AM–12:00 PM	TOUR—Butte Creek Ecological Preserve
pg.07	9:00 AM–9:50 AM	Featured Film: Connecting Students to Global Sustainability
pg.07	9:00 AM–9:50 AM	Concurrent Sessions
pg.14	9:30 AM–11:00 AM	TOUR—Farm Sanctuary
pg.14	10:00 AM–10:50 AM	TOUR—CUSD Solar Case Study—Chico High School
pg.07	10:00 AM–10:50 AM	Concurrent Sessions
pg.07	10:00 AM–10:50 AM	Featured Documentary: What We Are Leaving Behind in Iraq
pg.08	11:00 AM–12:15 PM	Concurrent Sessions
pg.15	Noon–1:30 PM	Local Lunch— <i>Separate Fee Required</i>
pg.15	12:30 PM–1:00 PM	Eco Fashion Show
pg.09	1:45 PM–3:00 PM	KEYNOTE—Laura Stec
pg.09	3:10 PM–4:00 PM	Concurrent Sessions
pg.14	3:10 PM–4:00 PM	TOUR—CSU, Chico Arboretum
pg.14	3:30 PM–4:20 PM	TOUR—Gateway Science Museum Sustainable Gardens
pg.10	4:10 PM–5:30 PM	Featured Film: <i>Scarred Lands and Wounded Lives: The Environmental Footprint of War</i>
pg.10	4:10 PM–5:00 PM	Concurrent Sessions

SATURDAY, MARCH 3, 2012

	8:00 AM–9:00 AM	Check-in and Continental Breakfast BMU Lobby and Auditorium—don't forget your mugs!
pg.11	9:00 AM–9:50 AM	Concurrent Sessions
pg.11	10:00 AM–10:50 AM	Concurrent Sessions
pg.12	11:00 AM–12:15 PM	Concurrent Sessions
pg.12	11:00 AM–12:15 PM	FEATURED SPEAKER—Tony Gamboa
pg.13	2:00 PM–2:50 PM	Concurrent Sessions
pg.13	3:00 PM–4:00 PM	KEYNOTE—Climate Crisis: Science vs. Denial—Peter G. Joseph, MD
pg.15	5:00 PM–7:00 PM	Final Conference Celebration

KEYNOTE SPEAKERS

THURSDAY THROUGH SATURDAY



DR. WALLACE "J" NICHOLS

This is Your Brain on Ocean | March 1, 2012 at 4:00 pm in the BMU Auditorium

Dr. Wallace "J." Nichols is a research associate at California Academy of Sciences, founder/co-director of Ocean Revolution, an international network of young ocean advocates, and a catalyst for LiVE-BLUE. He earned his MEM in Environmental Policy and Economics from Duke University's Nicholas School and his PhD in Wildlife Ecology and Evolutionary Biology from University of Arizona.



LAURA STEC

Cool Cuisine—Feed Your Body, Mind, and Planet | March 2, 2012 at 1:45 pm in the BMU Auditorium

Author, chef, and educator Laura Stec will address how agricultural practices can enhance or destroy the taste and nutrient-quality of food, and what motivates eaters (especially youth) to make healthy changes to their diet. Understanding the "Shoppers Challenge," the four main factors influencing food purchases, will help us cook delicious, full-flavored foods more easily and more often. Book signing to follow.



PETER G. JOSEPH, M.D.

The Climate Crisis: Science vs. Denial | March 3, 2012 at 3:00 PM in the BMU Auditorium

The climate crisis looms as the most serious threat to human civilization. Recent data indicates more rapid warming and accelerating greenhouse gas emissions than previously projected. As the political process addresses the issues, disinformation floods the public space, creating confusion and delay. Dr. Joseph will review the latest scientific data and discuss both the technical and political aspects of humanity's greatest challenge.

FEATURED SPEAKERS

GREEN LIVING PROJECT

Featured Film: Connecting Students to Global Sustainability

Friday, March 2, 2012 at 9:00 am in the BMU Auditorium

A showcase of cutting-edge sustainability projects across Central and South America, Africa, and North America. Students will experience the expedition team's journey and witness the latest efforts in wildlife conservation, sustainable tourism, voluntourism, rainforest conservation, indigenous communities, renewable energy, research, education, and more.

MICHAEL FITZPATRICK

Featured Photo Essay: "What We Are Leaving Behind in Iraq"

Friday, March 2, 2012 at 10:00 am in the BMU Auditorium

Michael Fitzpatrick, a veteran of the US Army, was able to take thousands of photos during his two tours in Iraq. The documentary presents some of these photos and the stories they reveal, which unintentionally provide a photo journal of the environmental devastation caused by the war in Iraq.

ALICE & LINCOLN DAY

Featured Film: Scarred Lands and Wounded Lives:

The Environmental Footprint of War

Friday, March 2, 2012 at 4:10 pm in the BMU Auditorium

Alice & Lincoln Day first produced a five-minute trailer of *Scarred Lands and Wounded Lives: The Environmental Footprint of War*. Upon completion of this trailer, the Days formed a tax-exempt nonprofit entity, the Fund for Sustainable Tomorrows, for the purpose of producing the entire film.

TONY "MORGOTH" GAMBOA

"Dynamic Balance"

Saturday, March 3, 2012 at 11:00 am in the BMU Auditorium

Join Morgoth on a magical journey of the imagination where audience members will dive into the depths of their own souls. This type of free-formed experiential learning bridges the gap between idealism and pragmatism, the right and left brain, dreams and reality, and intrinsic and extrinsic motivation.

THURSDAY SCHEDULE

9:00–9:50 CONCURRENT SESSIONS



Sustainable Business Solutions With Net Impact [BMU 204]

Gregory Ledesma, Net Impact at CSU, Chico
This presentation will introduce and describe Net Impact, a non-profit sustainable business organization that strives to change the world through sustainable business.



Designing a Cool Place to Work [BMU 209]

Jessica Lundberg, Brionne Saseen, Lundberg Family Farms
Lundberg Family Farms turned the need for workspace expansion into an opportunity to build a sustainably cool place to work. LFF Environmental Coordinator Bri Saseen, and Chair of the Board Jessica Lundberg will discuss the new building and the process of creating a great work atmosphere with reduced environmental impacts.



Building Coalitions: Implementing Change on Campus at the Grass Roots [BMU 210]

Mimi Riley, Kelly Munson, Butte College; Eric Chrisler, Outgoing President, Butte College Associated Students; Kevin Killion, President, California Student Sustainability Coalition Butte College Chapter; Chauncey Quam, Outreach Coordinator, Butte College Sustainability Resource Center

This panel will discuss how students and faculty can implement sustainability practices and policies at the grass roots level by identifying unifying interests around sustainability issues and then building working coalitions within their home campus as well as between campuses at the regional, statewide, and national level.



Economics, Energy, and Ecosystems: Why do we tolerate ecosystem degradation? [BMU 211]

Kim Mattson, Quartz Valley Indian Reservation
The current ideas of economics, especially the perceived need for continuous growth of national economies, coupled with past availability of cheap energy, conflicts with the ideas of ecosystems ecologists and their perception of how the world works. Our current patterns do not appear sustainable.



GRID Alternatives: why is free, clean electricity from the sun only available to big businesses and wealthy environmentalists, when it should be available to everybody? [BMU 304]

Erin McDonough, Greg Smith, Grid Alternatives
What is GRID Alternatives? Making solar available is not just an environmental issue. GRID Alternatives hits every aspect of environmental and social justice on an everyday basis.

10:00–10:50 CONCURRENT SESSIONS



IT and Sustainability: Enabling Breakthroughs with Better Technology and Metrics [BMU 209]

Peter Perrault, NetApp
Data Center energy consumption is an increasingly contentious issue for IT organizations. While CIOs and sustainability professionals work to tackle the problem, many are discovering new and innovative ways for IT to enable sustainability at a broader scale. This presentation will discuss the hottest trends and challenges of "green" IT.



Financing Solar: Creating a Positive Cash Flow [BMU 211]

Paul Sullivan, Alternative Energy Systems, Inc.
At the end of this presentation, the audience will have a working knowledge of the various avenues of financing a solar energy system in today's tight credit market and the advantages/disadvantages of each.



Small Steps to Sustainability: Treating Going Green as a Change Management Project [BMU 312]

Ronda Roberts, Editorial Consultant and Independent Scholar
Learn techniques from the project management industry that will help you to go green in your personal or professional life.



The School Garden-Kitchen Model and Practice Going Forward [BMU 210]

Richard Hirshen, John Howlett, Sherwood Montessori K-8 Public No Tuition Charter
Our Full Circle program incorporates agripreneurism, journalism, philanthropy, the joys of gardening and cooking, nutrition, and community outreach.



The Recycling and Rubbish Exhibit Program and How to Build a Worm Composting Bin [BMU 304]

Marley Zalay, Desi Hatton, R.A.R.E. Recycling and Rubbish Exhibit at CSU, Chico
Instructors from the Recycling and Rubbish Exhibit program discuss the community outreach and education and the free field trips they provide to Butte County schools and youth groups. The discussion will be followed by a demonstration of how to build a worm composting bin for classroom, home/apartment, or garden use!

CHECK OUT THE

University Farm

Visit the Chico State Organic Vegetable Project and Dairy.

Meeting Time:
Thursday 9:00 a.m.
See pg. 14 for more info

THURSDAY SCHEDULE BY TIME: CONTINUED

11:00–11:50 CONCURRENT SESSIONS



Project RHAB and RGEN: Achieving Sustainability through Use of Rice Hulls in Building Materials and Bio-char Energy Generations

[BMU 204]

Maria Elena Anguiano, MESA Program Interns at Butte College

Two innovative research projects conducted by Butte College MESA (Mathematics Engineering Science Achievement) student interns focused on achieving Sustainability through use of Rice Hulls in Building Materials and Bio-char Energy Generations.



The Impact of Animal Agriculture on Water

[BMU 209]

Sophia Pospisil, Farm Sanctuary

Environmentally conscious consumers install low-flow toilets and buy phosphate-free detergents, yet often overlook the effect food choices have on water conservation and pollution. Sophia Pospisil will outline key water issues related to farming and offer personal actions we can take to lower our impact on the environment.



Passive Solar and Geo Thermal Keys to Achieving Net Zero Energy Retrofit & New Homes and Light Commercial Buildings

[BMU 210]

Bruce Baccetti, SMUD

Add passive solar to your existing house and make it more beautiful, livable, and energy efficient...no matter which way it faces.



From Datacenter to Desktop—Campus IT Practices that Make a Difference!

[BMU 211]

Andrea Mox, Jerry Ringel, Scott Claverie, Ryan Richter, Mike Murray, Mark Lewkowicz, CSU, Chico IT Support Services

This panel will focus on IT practices that CSU, Chico has implemented that make an impact on campus sustainability initiatives. CSU, Chico has focused on sustainable IT practices since 2006, including Datacenter power management, server virtualization, lab and campus desktop power management, improved sustainable printing, along with other projects.



California Grown "Chinese Herbs"

[BMU 303]

Adam Moes, Acupuncture and Herbs

Many of the herbs we use in Chinese Medicine grow wild in California. Many more can be grown here as a cash crop. We will be exploring this field of folk medicinal agriculture. We will include timely information that you can apply directly in your healthy lifestyle.



Roseville Dry Creek Wastewater Treatment Plant Levee Relocation

[BMU 304]

Ed Armstrong, Foothill Associates

In 2010, the City of Roseville relocated the levee of its Dry Creek Wastewater Treatment Plant approximately 200 feet north, providing additional floodplain along Dry Creek. Revegetation of the restored floodplain incorporated first and second terrace riparian plantings. This presentation discusses the planning, design, installation, and first year of monitoring.



Sustainable Manufacturing

[BMU 312]

Charlie Pooler, Manufacturing Student at CSU, Chico

A discussion of the curriculum that Chico State has derived, as well as the implications it has on the business community.



Sustainable Consultations of Office Practices - SCOOP

[BMU 314]

Amanda Leonis, Liz Collier, Colleen Cole, Luann Manss, SCOOP Interns

S.C.O.O.P. (Sustainable Consultation of Office Practices) is a student-run organization at CSU, Chico. SCOOP works with offices on campus to assess current office practices and make recommendations for sustainable improvements to start saving money and energy for the University.

CHECK OUT THE

Big Chico Creek Ecological Reserve

Enjoy a hike in our outdoor education classroom while finding out how the University manages this property in a sustainable manner.

Meeting Time:

Thursday 9:15 a.m.

See pg. 14 for more info

12:15–1:15 GREEN CAREER FORUM



[BMU 210]

Stewart Oakley, CSU, Chico, Erin McDonough, GRID Alternatives, Fletcher Alexander, CSU, Chico, Jeremy Miller, Chico Green School, Mandi McKay, Sierra Nevada Brewing Co., Dwight Aitkens, Sagefield Power, and John Lane, Chico Environmental Science & Planning

Interested in getting a "green" job but don't know the jobs available within this field or don't know where to look for one? The Green Career Forum will provide students with insightful information about what a green job is, how competitive and rewarding a green job is, and how to get one. A question-and-answer session will follow, and students are highly encouraged to take advantage of this opportunity to interact with the "green" professionals.



THURSDAY SCHEDULE BY TIME: CONTINUED

1:30–2:45 CONCURRENT SESSIONS



The Desire to Give Back: How to Cultivate Grateful Activism [SSC 150]

Randy Larsen, CSU, Chico

Grateful environmental activism is more sustainable than activism based on fear or rage. At the heart of gratitude is a desire to reciprocate, as in a debt of gratitude. This talk will explore how to cultivate gratitude and the role of being grateful in environmental activism.

Here Come the National Common Core Standards for K-12 Public Schools: Where does Environmental Education for the 21st century fit? [BMU 204]

Jessica Vandehoven, Jeremy Miller, Scott Iamura, Kids & Creeks

Public school educators must push now to make sure the national Common Core Standards include Environmental Education. Join teachers from the non-profit Kids and Creeks in a panel discussion on why we need Environmental Education standards and how we can get them in place as major shifts in education loom.



Sustainability: Food, Garden, and Curriculum [BMU 209]

Pamela Spoto, James Collins, Sara McCurry, Shasta College

This presentation will describe how we model sustainable practices to educate the Shasta College campus and community on the importance of local, organic, nutritionally dense, and delicious food by linking the experiential learning in the Organic Teaching Garden to classes as well as promoting eco-literacy and self reliance.



Visualizing Sustainability: Maps and Models in Environmental Research and Planning Geography & Planning Students Poster Session [BMU 210]

Aaron Collom, Jason Schwenkler, Steven Verbrugge, Maddison Westcott, Eli Goodsell, Cathie Benjamin, Daniel Siegel, Jacque Chase
Students in the Geography and Planning Department have worked closely with faculty to understand environmental processes, community development, and spatial change

related to sustainable principles. Various media have been created using advanced technologies in geographic information sciences, cartography, and planning. Presenters will answer questions about their posters and maps.



Seeds of the New Paradigm [BMU 211]

Julie Estep, Adept Professional, LLC, Ann Marie Larsen, Butte College

If we managed a global society that was sustainable, species-supportive, resistant to war, and truly free, could it be constructed from ideas that are with us today? Explored are 10 transformative approaches, innovations, and experiments that are adaptive to multiple contexts, and that may bring the new paradigm within reach.



Urban Forest Carbon Sequestration, Air Quality Benefits, Energy Savings Benefits, and Population Dynamics in the City of Chico [BMU 312]

Scott Gregory, Biologist and Certified Arborist

Scott Gregory inventoried and mapped all of Chico's 34,950 municipal street trees and available planting sites and used modeling software to quantify the mass of annual carbon sequestration and other environmental services they provide. Carbon dioxide sequestration benefits have assisted the City of Chico in acquiring tree-planting grants.



Global Warming: if we can't stop it, can we live with it? [BMU 314]

Stephen I. Feher, Sustainable Community Development Institute

The presentation outlines why the use of fossil fuels will be with us for much of this century. It examines our options to try reducing greenhouse gas emissions, but it also discusses worst-case scenarios in case those efforts are unsuccessful, or insufficient.

CHECK OUT THE

Sierra Nevada Brewing Co. Tour

Tour Sierra Nevada Brewing Co. to see how and where one of the world's best beers is sustainably brewed.

Meeting Time:

Thursday 11:00 a.m.

See pg. 14 for more info

CHECK OUT THE

Gateway Science Museum Tour

Tour the Gateway Gardens and LEED building design. Learn more about the unique building and many educational programs.

Tour Time:

Thursday 3:30 p.m.–4:20 p.m.

See pg. 14 for more info



THURSDAY SCHEDULE BY TIME: CONTINUED

3:00–3:50 CONCURRENT SESSIONS



Campus-Scale Biodiesel Production: A Foundation Building Block for All Academic Sustainability Programs

[BMU 204]

Mark Roberts, Springboard Biodiesel

How the academic community can save money, reduce GHG, and enhance curricula via campus-scale biodiesel production.

Chico Energy Pioneers: PG&E Innovators Pilot Project

[BMU 209]

Linda Herman, City of Chico, Jon Stallman, The Energy X-Change, Annie Rafferty, Josh Goldsberry

PG&E, the City of Chico, Butte College Training Place, and California State University, Chico have joined together to help local homeowners achieve lasting energy efficiencies. The Chico Energy Pioneer program provides homeowners free whole-house energy efficiency assessments, weatherization retrofits, and behavioral consultations to help homeowners set and achieve their personal energy goals.



Biofiltration Wetland Education Learning Laboratory (BWELL) Project: Student Interns

Participate in Sustainability and Change on a Community College Campus

[BMU 210]

Maria Elena Anguiano, Butte College MESA Interns

Presenting an innovative research project conducted by Butte College MESA (Mathematics Engineering Science Achievement) student interns focused on conducting a feasibility Study designed to: calculate storm runoff, identify chemical compounds and calculate the bio-swale needed to bio-filter the runoff water entering into a creek on the Butte College campus.



How To Be a Change Agent for Sustainability on Your Campus

[BMU 211]

Michael Kane, Sierra College

This presentation will discuss how to be an effective change agent for sustainability in your organization or community. We will define what it is to be a change agent, the skill set necessary, and the types of knowledge and actions needed to make effective change.



Alternative Yard & Garden Care

[BMU 304]

Maggi Barry, Mary Muchowski, Julia Murphy, Butte Environmental Council

Discussion will include the reasons for, and importance of, using less toxic products on your yard and garden. The presenters will also explain how to develop healthy soil and how that will reduce the need for toxic pesticides and herbicides.



Green Campus & SCOOP Energy Audit Workshop

[BMU 312]

Amanda Leonis, Sustainable Consultations of Office Practices (SCOOP), Trevor Prater, Chico Green Campus Program

These two programs will break down the various tasks associated with home or office energy audits in an easy, understandable way. Attendees will learn how to use various tools and techniques to identify home and office inefficiencies.



Cooperative Meetings—How To Move Forward as a Group

[SSC 314]

Stephanie Elliott, GRUB Education Program

The GRUB Cooperative is an intentional community in its third year. Meetings keep us together as a group. We will discuss the changes our meetings have gone through, what has worked and what has not, and why we find these to be the core of our group staying together.



Let's Talk Trash with the CSU, Chico Campus Conservation Committee

[SSC 150]

Dale Wymore, Rob Thacker, Durbin Sayers, Eli Goodsell, Luann Manss, Richard Perrelli, CSU, Chico

CSU, Chico established the Campus Conservation Committee to review the University's existing waste management procedures and recommend ways to reduce campus waste. Members of the CCC will discuss how the committee was formed, current recommendations, overcoming waste diversion obstacles, and current waste diversion efforts taking place at CSU, Chico.



4:00 KEYNOTE SPEAKER—Dr. Wallace "J" Nichols



This is Your Brain on Ocean

[BMU AUDITORIUM]

Dr. Wallace "J." Nichols is a scientist, activist, community organizer, author, and dad. He works to inspire a deeper connection with nature, sometimes simply by walking and talking, other times through writing or images. But he knows that what really moves people is feeling part of and touching something bigger than ourselves. Dr. Nichols is a research associate at California Academy of Sciences. He earned his MEM in Environmental Policy and Economics from Duke University's Nicholas School and his PhD in Wildlife Ecology and Evolutionary Biology from University of Arizona.

Nichols advises a motivated group of international graduate students and serves as an advisor to numerous non-profit boards and committees as part of his commitment to building a stronger, more progressive and connected environmental community.

FRIDAY SCHEDULE

9:00–9:50 CONCURRENT SESSIONS



Featured Film: Connecting Students to Global Sustainability [BMU AUDITORIUM]

Green Living Project

The multi-media presentation *Connecting Students to Global Sustainability* will showcase cutting-edge sustainability projects across Central and South America, Africa and North America. Students will experience the expedition team's journey and witness the latest efforts in wildlife conservation, voluntourism, indigenous communities, renewable energy, and more.



Little Green Boxes—Distributed Energy Production from Waste By-products [BMU 211]

Evan Edgar, Total Compliance Management

AB 32 adopted a 33% renewable energy standard, a low carbon fuel standard, anaerobic digestion, and compost use. Technology is being commercialized to energize recycling facilities and fuel the garbage and recycling fleets at the local level. Permitting is underway throughout California, turning our recycling facilities into Resource Recovery Parks.



Think Locally, Act Globally? Fair Trade and Local Economic Development from Uganda to Chico [BMU 312]

Jenais Zarlin, Ben Corey-Moran, Thanksgiving Coffee Company; Amy Louis, Mandy Johnston, Six Degrees Coffee

Chico local Six Degrees Coffee and Mendocino based artisan coffee roaster Thanksgiving Coffee Company examine the supply chain through the lens of small communities and partnerships.



A Campus-wide Waste Audit—Methodology and Results [BMU 204]

Eli Goodsell, AS Recycling at CSU, Chico

In April, 2011 a campus-wide waste audit was performed at California State University, Chico. Twenty-four hours worth of waste was sorted over a three-day period by over 60 volunteers and interns. This presentation will discuss the planning, results, and limitations of this audit.



The Grassroots Healthcare Revolution [BMU 303]

Susan Tchudi, Mojohito Richerson von Tchudi, Everything Herbal CSA at TurkeyTail Farm

This session describes "grassroots healthcare," a system of health that is local and sustainable. We'll describe the global and local benefits of plant-based medicine: affordable healthcare, ecological restoration, economic upliftment, and preservation of culture via ethobotanical traditions, and present attendees with ideas about getting started growing culinary and medicinal herbs.



Sustainability Engaged: Implementing Sustainability into the College Curriculum Through Service Learning [BMU 314]

Tyrie Smith, Georgia Premier College

One of the challenges of introducing sustainability into the curriculum stems from misconceptions about sustainability within the institutional ranks. Georgia Perimeter College is meeting this challenge by defining its sustainability-in-the-curriculum model through reciprocal relationships with community organizations and their sustainability efforts.



Steering Our Homes Towards Net-Zero and Beyond—Thermal Science Behind Energy Efficient Design and Construction [BMU 209: 9:00–10:50 EXTENDED SESSION]

Todd Harris, Good Green Homes; Greg Kallio, CSU, Chico; Bruce Baccei, Emerging Technologies Project Manager; Patrick Cole, A R C A D E M E Architects

We will explore how the properties of thermal mass, super insulation, and energy flow can drive design to make our structures thermally comfortable with as little draw from the electrical grid as possible.



Become a Certified Sustainability Manager [BMU 304]

Angela Casler, Department of Management, CSU, Chico

Validate your knowledge, skills, and abilities as a certified sustainability manager and give yourself a competitive advantage. Certified professionals will gain a competitive advantage to compete in a highly competitive job market. Come learn about how you can become a Certified Sustainability Manager.



Solar Case Study: Chico Unified School District [SSC 150]

Michael Weissenborn, Chico Unified School District; Russell Driver, Newcomb, Anderson & McCormick; Jennifer Jachym, Solar City

Chico Unified School District will present the results of their solar program, consisting of installations at five school sites. We will cover how the District developed a business case for the project, utilized a competitive procurement process to drive down costs, and took advantage of design-build implementation methodology to achieve results.

10:00–10:50 CONCURRENT SESSIONS



Featured Documentary: What We Are Leaving Behind in Iraq BMU AUDITORIUM

Michael Fitzpatrick

A veteran of the US Army, Fitzpatrick had two tours of duty in Iraq. During these tours he was able to take thousands of photos. The documentary presents some of these photos and the stories they reveal, which unintentionally provide a photo journal of the environmental devastation caused by the war in Iraq.



Using STARS to Advance Campus Sustainability [BMU 204]

Dan Wakelee, Assistant Provost, CSU, Channel Islands

The STARS (Sustainability Tracking Assessment and Rating System) process is a valuable tool for measuring and improving campus sustainability efforts. This session describes the process of engaging the campus community in the STARS process at CSU, Channel Islands and changes that resulted from the final report.

FRIDAY SCHEDULE BY TIME: CONTINUED

10:00–10:50 CONCURRENT SESSIONS CONTINUED



Steering Our Homes Towards Net-Zero and Beyond—Thermal Science Behind Energy Efficient Design and Construction

[BMU 209: 9:00–10:50 EXTENDED SESSION]
Todd Harris, *Good Green Homes*; Greg Kallio, CSU, Chico; Bruce Baccei, *Emerging Technologies Project Manager*; and Patrick Cole, *A R C A D E M E Architects*

We will explore how the properties of thermal mass, super insulation, and energy flow can drive design to make our structures thermally comfortable with as little draw from the electrical grid as possible.



Charting the Path of Sustainability for a Community College

[BMU 211]
Jessica Jones, *AS President at Santa Rosa Junior College*

Santa Rosa Junior College has signed a Declaration of Sustainability. Come hear how students, faculty, and administrators are working together to move toward a more sustainable future in the midst of severe budget cuts.



Being the Change You Want to See

[BMU 303]
Christine LaPado, Chico News & Review
Chico News & Review environmental columnist
Christine G.K. LaPado explores how to make one's lifestyle more compatible with the needs of an increasingly stressed planet.



City of Chico 2020 Climate Action

Plan
[BMU 304]

Fletcher Alexander, The Institute for Sustainable Development at CSU, Chico; Ann Schwab and Linda Herman, City of Chico

A 2006 signatory of the U.S. Conference of Mayor's Climate Protection Agreement, the City of Chico has made a commitment to reducing locally-generated greenhouse gas emissions to 25% below 2005 levels by the year 2020. The city's Climate Action Plan outlines emissions-reduction strategies and actions to be implemented over the next nine years.



Wind Power for the Ranch and Farm

[BMU 312]
Scott Jackson, Aero Wind Energy, Inc.
A detailed description of how farmers and ranchers can take advantage of wind power and apply the harvested energy to their irrigation pumps. With new blade designs, virtually any location has a decent Return of Investment for the agriculture element.



Chico Community Gardens- Creating Food for All

[BMU 314]

Stephanie Elliott and Flo Hamelton, GRUB

This is the second year GRUB Education Program has been supporting community gardens in Chico. We have now helped establish eight gardens. Our work as partnered us with local groups such as ARC of Butte County, OPT for Fit Kids, Independent living Services, CHIP, and the City of Chico.

11:00–12:15 CONCURRENT SESSIONS



The Future of Sustainability Teaching in Higher Education

[BMU 204]

Edward Quevedo and Bill Shutkin, Presidio Graduate School

The session will explore the need to sophisticate and refine the messages associated with sustainable development, and cover the related topic of interdisciplinary teaching at the graduate level as a differentiator in new program development. We will review the integration of curriculum in Business, Law, Policy, Materials Science, and Engineering.



100% Renewable Community Microgrids

[BMU 211]

Fred Klammt, WinSol

Is it possible to have community microgrids that provide energy from 100% local renewable sources? Yes! Call it energy commons or energy permaculture: it is possible to have locally sourced and controlled energy systems that are WAY more efficient than our current main grid AND provide local jobs.



Million Green Communities: Coming to a Community Near You

[BMU 304]

Scott Terrell, Million Green Communities Foundation

Million Green Communities is a non-profit Corp. Foundation. MGC works with CA & NV communities to help them save \$1M or more by implementing a variety of green strategies and programs in their own communities. MGC's focus is education, training, and community planning and organization as well as green jobs creation.



Waste Not Want Not, Abundance Is a Matter of Perspective

[BMU 209]

Max Kee and Tim Elliott, GRUB

We will share ways that we have found to limit our labor, increase the quality of life of all our living community, make many of the things we use, and most of all spend next to nothing in the process. With otherwise wasted products we have created delicious abundance.



Education is a Journey not a Destination!

[BMU 303]

Jill Pyatt, Claire Tuchel, DeeAnn Resk, and Tony "Morgoth" Gamboa, Prescott College

Prescott College specializes in experiential and interdisciplinary education. The school believes that education is a journey rather than a destination. Join a panel of Prescott College students and staff to discuss how cutting-edge education practices are addressing sustainability with interest in environmental and social issues.



This Way To Sustainability® VII

California State University, Chico
March 1–3, 2012

FRIDAY SCHEDULE BY TIME: CONTINUED

11:00–12:15 CONCURRENT SESSIONS CONTINUED



Doing More with Less: Maintaining, Operating, and Improving your BMS [BMU 312]

Bernard Keister, Guttmann & Blaevoet

Across the country, facilities managers are being asked to do more with less: less staff, less dollars for capital expenditures and operations. This is especially true for public-sector property owners. This presentation will offer some points to consider when planning for the maintenance, operation, and upgrade of a Building Management System.



Contemplative Leadership and Sustainability Program (CLASP): A Model for Developing Change Agents [BMU 314]

Bill Mains and Lindsey Kalkbrenner, Santa Clara University
CLASP seeks to create leaders who are sustainability-oriented change agents via monthly excursions into the region's natural and social environments and guided reflection. This workshop will introduce contemplative leadership—living in right relationship with self, others, nature, and one's faith, and inspiring others to do the same.

1:45 KEYNOTE SPEAKER—Laura Stec



Cool Cuisine—Feed Your Body, Mind, and Planet [BMU AUDITORIUM]

Laura Stec is corporate chef for Pescadero Foods, Inc. and their local-food brands Wattle & Comb® and Zoupka®. She is also culinary health educator for Kaiser Permanente, former chef for LifeLong, Inc., and Kaiser farmer's markets, and former consulting chef at The International Culinary School (Art Institute of California). In 1988, she founded EcoEaters, one of the first food and environment programs in the U.S., and has been connecting healthy people to a healthy planet for over 20 years. As a green-cuisine consultant, she lectures nationally and internationally. Her book, *Cool Cuisine—Taking the Bite Out of Global Warming* is co-authored with atmospheric scientist Dr. Eugene Cordero (Gibbs Smith, 2008).

Laura Stec will be signing her book "*Cool Cuisine—Taking the Bite Out of Global Warming*" at 3:00 p.m. in the BMU lobby.

3:10–4:00 CONCURRENT SESSIONS



Diesel Cars and Synthetic Liquid Fuels [BMU 204]

Richard McDonald, Retired, Lawrence Berkeley Laboratory

Diesel cars and light trucks are almost non-existent in the US in spite of their high fuel efficiency. Synthetic liquid fuels are becoming economically viable because of the high price of oil, and carbon-neutral fuels look feasible.



Sustainability and Mushroom Farming [BMU 211]

Kevin Foley, Premier Mushrooms L.P.

This presentation will focus on the more fundamental aspects of mushroom farming and how it intrinsically represents a closed loop system. It will also highlight current efforts on the farm surrounding waste management/recycling, energy efficiency, and renewable energy.



Practical Development of an Energy and Sustainability Program (That Actually Helps to Save Your Campus Budget) [BMU 304]

Carl Salas, Salas O'Brien Engineers

It all starts with two issues you may think are unrelated, climate change and shrinking budgets; these two global changes have propelled the traditional Energy Audit into a market all its own, and this awareness is being felt at the superintendent and board level.



Population Growth and Sustainability [BMU 209]

Dick Schneider, Californians for Population Stabilization

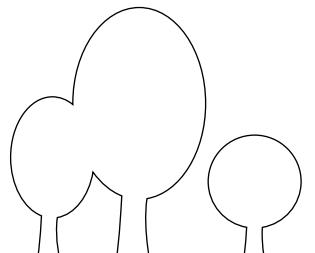
What does population growth have to do with sustainability? Are there limits to growth in a sustainable society? This session will focus on the size, sources, and effects of growth of the human population globally, in the United States, and in California and ways to control growth humanely and ethically.



Bike to the Future! [BMU 303]

Bruce Baccei, SMUD

If your city develops a good system of bike lanes, you can ride to work and shopping more safely than driving and be far healthier as a result. Detailed guidelines for equipment and practices of riding safely and getting healthier!



FRIDAY SCHEDULE BY TIME: CONTINUED

3:10–4:00 CONCURRENT SESSIONS CONTINUED



Conservation of Western and Clark's Grebes on the Thermalito Afterbay [BMU 312]

Dawn Garcia, Scott Huber, and Jennifer Patten, Altacal Audubon Society

Clark's and Western (Aechmophorus) grebes are summer breeders at Thermalito Afterbay. They are water obligate, and the Afterbay supports the 4th largest nesting colony of grebes in California. As California's thirst for water increases, can this species continue to thrive? Yes! Come learn about grebes with Altacal Audubon Society.



People Power vs. Corporate Rule [BMU 314: 3:10–5:00 EXTENDED SESSION]

Sharon Delgado, Earth Justice Ministries

This workshop will focus on growing corporate power, culminating in the 2010 Supreme Court decision *Citizens United vs. the FEC*, which allows unlimited corporate expenditures to influence elections. We will discuss strategies for ending corporate personhood and reclaiming democracy for people and the earth.



Thermal Engineering for Building Envelope Design [SSC 150]

Patrick Cole, A R C A D E M E Architects

This will be a presentation of techniques for building envelope design using computer simulation and a return on investment method. This simple method has been successfully performed, resulting in building energy performance far exceeding the California Energy Code requirements.

4:10–5:00 CONCURRENT SESSIONS



Featured Film: Scarred Lands and Wounded Lives—The Environmental Footprint of War

BMU AUDITORIUM

Alice & Lincoln Day

Time: 4:10–5:30 p.m.

The idea for this film aims to give audiences a greater understanding of how human wellbeing depends on the health of the environment, and how, throughout history, the health of the environment has been compromised by war and preparations for war.



Thermodynamic Limits, Natural Capital, and the New Economy [BMU 211]

Maggie Winslow, Presidio Graduate School

Using thermodynamic limits as the backdrop, Maggie Winslow will challenge some of the traditional economic assumptions that put us at risk of missing economic opportunities. She will present an alternative model based on ecological economics and will discuss where we can go from here at the macroeconomic and enterprise level.



It's Not Easy Being Green Without the Green Event Consulting Team [BMU 303]

Courtney Silver, AS Sustainability Program, CSU, Chico

This session will discuss the newly created green event consulting team at CSU, Chico. This team of students has been working with campus departments and student organizations to provide hands-on support for how to green a variety of campus events.



Creating a Sustainable Event from the First Day of Planning to Post-Conference Evaluation [BMU 204]

Katie Maynard, UC Santa Barbara

The event manager for the CA Higher Education Sustainability Conference (CHESC) will discuss the process of building a sustainable event: feeding, housing, transporting, and educating over 1,000 people. Examples will include quantifiable data on past accomplishments and an honest review of challenges that CHESC has faced in achieving its goals.



Our Sustainable Future: Feeding 10 Billion in 2050 [BMU 209]

Bruce Hicks, Butte College

In 2050, agriculture will be tasked with increasing food production by about 70%, without substantially increasing energy & water consumption. Is this possible? This presentation will provide a practical discussion of the choices to be addressed in order to achieve sustainable food production systems.



Dioxins in Free-Range Chickens from the South Oroville Area and How to Reduce Exposure [BMU 304]

Mary Muchowski and Julia Murphy, Butte Environmental Council

Butte Environmental Council conducted dioxin testing on free-range chicken eggs within a 1.25 mile radius of the Koppers Superfund Site. BEC found that twenty-four years after a large fire at this site, dioxins are still contaminating chicken eggs. Discussion will include our processes and our research on dioxins.

CHECK OUT THE

Conference Closing Celebration

All attendees, speakers and volunteers are invited to join the celebration in the BMU Common Grounds! Join us for live music and appetizers.

5:00 p.m.–7:00 p.m.

See pg 15 for more info



People Power vs. Corporate Rule [BMU 314: 3:10–5:00 EXTENDED SESSION]

Sharon Delgado, Earth Justice Ministries

This workshop will focus on growing corporate power, culminating in the 2010 Supreme Court decision *Citizens United vs. the FEC*, which allows unlimited corporate expenditures to influence elections. We will discuss strategies for ending corporate personhood and reclaiming democracy for people and the earth.

Sharon Delgado will be signing her book *"Shaking the Gates of Hell: Faith-led Resistance to Corporate Globalization"* from 5:00 to 5:30 p.m. in BMU 314.

SATURDAY SCHEDULE

9:00–9:50 CONCURRENT SESSIONS



Green Management Practices in 7 Powerful Steps [BMU 204]

Carl Salas, Salas O'Brien Engineers

The objective of this presentation is to demystify clean energy in an understandable format; provide the attendees with simple steps to make wise green decisions while reducing energy costs; and show that you can't make a campus (or any situation) more energy efficient without also making it more intelligent!

Sustainable Agriculture, USA/East Africa, Heifer International [BMU 209]

Suellen Rowlison and Suzanne Morrison, Heifer International, U.S.A., Little Rock, Arkansas

Small farmers in the U.S.A. and East Africa (Rwanda, Kenya, Uganda) learn to help themselves to better nutrition and income through sustainable organic farming and conservation. Heifer I. presents a new model in Appalachia and Arkansas Delta to link farmers with local food systems and advocacy.



Applied Sustainability Education through Campus - Community Partnerships [BMU 210]

Candis Mary-Dauphin and Stephen Miller, Strategic Energy Innovations (SEI)

SEI-University Sustainability Partnership (CUSP) model offers an innovative method

for systematically matching municipal need with assets and talent of local academic institutions. In this session the presenter will share how CUSP connects faculty and students across departments with municipal projects to advance local climate initiatives.



Taking Bottled Water Off the Campus Menu [BMU 211]

Tall Chief Comet and Suzuka Muraoka, Humboldt State

As the culmination of a three-year effort lead by impassioned students in the campus club Take Back The Tap, Humboldt State University initiated a phase-out of bottled water sales during the 2011 fall semester. This presentation provides an overview of the student efforts and the phase-out implementation by administration.



Green Funds on Campus: How to Start One On Your Campus [BMU 304]

Robyn DiFalco, AS Sustainability at CSU, Chico

Many campuses have "Green Initiative Funds" available for student-driven projects in sustainability. Learn to launch a campaign to get this funding set up on your campus. Student organizers from campuses across California will discuss campaign strategies and how to begin the process of adding a sustainability fee on your campus.



Zen and the Return to Earth [BMU 312]

Lin Jensen, Chico Zen Sangha

Human sustainability lies in adapting to the native rhythms of the living earth. Instead we've gone in linear pursuit of our own goals. But the earth's movement isn't linear but circular, always returning to its own living source. We must do the same: we must enact the return to earth.

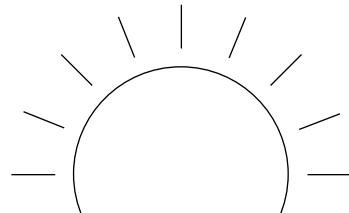
Lin Jensen will be signing his book *Deep Down Things: The Earth in Celebration and Dismay* from 10:00 to 10:30 a.m. in the BMU lobby.



Seeking Sustainability [BMU 314]

Luann Manss, AS Sustainability at CSU, Chico, Mark Stemen, CSU, Chico and Lynsey Smamons, AS Sustainability at CSU, Chico

Join a panel of students, faculty, and staff from CSU, Chico as they share their experiences with seeking sustainability. Youz will hear how their passion for sustainability was ignited, the obstacles they have overcome, what inspires them to continue seeking, and their personal strategies for sustainable living.



10:00–10:50 CONCURRENT SESSIONS



Composting 101 [BMU 204]

Ashley Anderson and Marco Poort, AS Recycling at CSU, Chico

The session will talk about some of the issues surrounding organic waste in landfills. We will cover what compost is and why it is beneficial for the soil and environment. Forms of composting will be covered. Participants will be shown how to build and maintain their own worm bin.

Student leaders have a lot of great ideas and want to do them all, but can't do it alone! SCOOps: Students Collaborating and Organizing Opportunities and Projects for Sustainability is a collection of student leaders from diverse organizations that meet to foster collaborative opportunities and create bigger, better events.

describes how Butte College is implementing its sustainability initiative with a particular emphasis on career and technical education.



Supporting Student Leaders: Fostering Collaboration, Enhancing Events, Preventing Burn-out [BMU 209]

Lindsey Cromwell Kalkbrenner and Michelle Tang, Office of Sustainability at Santa Clara University



Sustainability at Butte College [BMU 210]

Les Jauron, Butte-Glenn

Community College District, and David Anderson, LEED Accredited Professional, and Certified Energy Analyst

Modeling sustainability is one of Butte College's five strategic initiatives. The college has received numerous awards for its efforts and is the first "grid positive" college in the country. This presentation



Green Funds on Campus: Best Practices & Lessons Learned [BMU 303]

Robyn DiFalco, AS Sustainability at CSU, Chico

This session will present different models of student fee-based "Green Initiative Fund" programs at various campuses across California. Come learn how each campus developed its application process, funding committee, and review process. Find out what important lessons have been learned from these various campus programs.

SATURDAY SCHEDULE BY TIME: CONTINUED

10:00–10:50 CONCURRENT SESSIONS CONTINUED



California Student Sustainability Coalition: Join the Movement [BMU 304]

Lynsey Sammons, Kristina Davtyan, Tia Tyler, and Jonathan Finley, California Student Sustainability Coalition
The California Student Sustainability Coalition will discuss their organization and campaigns, including ways to get involved in the largest statewide network of student environmental activists in California.



Greening the Career Fairs at Chico State and Humboldt State [BMU 312]

Brittany Brennecke and Brietta Linney, The Green Campus Program at Humboldt State University
The Green Campus Program is a student-driven energy efficiency education program that partnered with the career centers at Chico and Humboldt State to green their respective career fairs. This session will give an overview of an interactive way to establish a connection between students and the green workforce.



Sustainable Solutions for Developing Communities [BMU 314]

Marley Zalay and Dr. Stewart Oakley, CSU, Chico
In 2050, agriculture will be tasked with increasing Sustainable Engineering and Environmental Health for Development (SEEHD) will present their recent work in Honduras, including the Ceramic Water Filter Project, a hands-on demonstration of the filters, the El Paraso landfill design, and the Tela wastewater treatment lagoon design.

11:00–12:15 CONCURRENT SESSIONS



Featured Session: Dynamic Balance [BMU AUDITORIUM]

Tony "Morgoth" Gamboa

Join Morgoth on a magical journey of the imagination where audience members will dive into the depths of their own souls. This type of free formed experiential learning bridges the gap between idealism and pragmatism, the right and left brain, and dreams and reality. Come experience a real time analysis of intrinsic motivation superseding extrinsic motivation.



Establishing Recommended Standards for Sustainable Literacy in Higher Education [BMU 210]

Katie Maynard, UC Santa Barbara; Kristy Michaud, CSU, Northridge; Debra Sharkey, Cosumnes River College; and Mark Stemen, CSU, Chico
A framework for recommended sustainable literacy standards will be presented by an informal group of faculty pioneering sustainable curriculum. Attendees will be asked to consider the framework and share their feedback. Examples of sustainable literacy criteria from several campuses will be compiled and used as the basis for the framework.



Recycling in the Real World: How InterfaceFLOR Learned to Close the Loop on Waste Carpet [BMU 304]

Mikhail Davis, InterfaceFLOR

Everyone loves the idea of closed-loop products that can be turned into a new product at end-of-life, but what does it take to make that work environmentally and economically for a complex product like carpet tile? InterfaceFLOR shares the story of their sometimes bumpy journey toward closing the loop.



The Energy Audit Roadshow [BMU 204]

Meghan Kearns and Renee

Lafrenz, Alliance to Save Energy

Energy auditing and retrofits are cost-effective energy solutions. The Roadshow teaches beginners how to quantify energy use and identify low-cost and no-cost retrofits for commercial buildings. The presentation explains the energy audit process, including how to calculate energy use and savings. Participants will also be introduced to auditing tools.



Our Future Youth Fellows Working to Create Positive Change in Oakland, CA [BMU 211]

Ambrosia Krinsky, Ravahn Samati, Lisa Curtis, and Philip Tidwell, Grand Aspirations-Summer of Solutions
Summer of Solutions Oakland was an opportunity for youth activists from different demographics to work together in creating community change. We focused on food justice, art & media, thriving communities and green energy. At this workshop we will share with you the story of our journey, highlights, and challenges.



The "Greening" of existing Homes—Home Energy Audits and Makeovers [BMU 312]

Todd Harris, Good Green Homes and Jon Stallman, The Energy X-Change

Learn about Whole House Energy-Efficient Retrofitting, and what is being done locally to test, analyze, and upgrade existing homes to make them both more energy efficient and healthier places to live.



Chico Green Business Program—Discussion of Program and Business Certification [BMU 209]

Fletcher Alexander and Alan Rhoades, CSU, Chico, Ann Schwab, Scott Wolf and Dwight Atkins, City of Chico Sustainability Task Force; Amanda Fairley, Waste Management; Jill Ortega, Recology; and Nichoel Farris, PG&E
Developed collaboratively, the Chico Green Business Certification Program is designed to promote sustainable practices by local businesses and to recognize leading businesses for their actions.



The Sustainability of Water [BMU 303]

Greg Melton, Melton Design Group and Don Franklin, Hunter Enterprises

We will cover a wide range of water topics: where water comes from to where it is all going. We will introduce new requirements, goals, and laws that agencies and manufacturers are taking to save water. 20% deduction by 2020 is our target with new technology, approaches, and education.



An Omnivore's Dilemma: The Myth of the Sustainable Meat Movement [BMU 314]

Robert C. Jones, CSU, Chico

Folks like Michael Pollan argue that though animals are feeling, sentient beings, meat-eating remains ethical and sustainable since meat-eating is, in some sense, "natural." I argue that these arguments are misguided and rely entirely on flawed and untenable notions of "natural," and that veganism remains a viable and ethical alternative.

SATURDAY SCHEDULE BY TIME: CONTINUED

2:00–2:50 CONCURRENT SESSIONS CONTINUED



Collaboration With On and Off-Campus Entities [BMU 204]

Adrienne Spitzer and Brietta Linney, Green Campus Program at Humboldt State University
The Green Campus Program is a student-driven energy efficiency education program that has partnered and collaborated with many on- and off-campus entities to create successful education campaigns and to achieve measurable energy savings. This session will showcase the best practices and lessons learned from these collaborations on various projects.



Deforestation of the Braj Hills of Northern India [BMU 211]

Manju Pillai and Tanya Kieselbach, Braj Dham Seva
Braj Dham Seva works to restore the sacred geography of the Braj region in northern India; an area that is increasingly compromised ecologically. This organization illustrates the relevance of traditional narratives and faith in contemporary political landscapes, and their potential role as a catalyst towards positive societal change and sustainability.



Modeling the Giant Magnetocaloric Effect for Use in Ambient Cooling Applications [BMU 312]

Oliver Ta, CSU, Los Angeles
La_{0.8} Sr_{0.2} MnO₃ is a magnetocaloric material that can be employed in cooling applications near ambient temperatures. This research aims to quantify the cooling properties of this material by means of the density functional theory and to validate the calculations experimentally.



How to Run a Diesel Vehicle on Used Cooking Oil [BMU 209]

Michael Pike and Chris Nelson, Veggie Voyagers
This is an overview of how to collect, clean, and run a vehicle on free used cooking oil. It includes a 20-minute video of the author processing vegetable oil and explaining the actual steps.



Activism as a Lifestyle: A Young Woman's Spiritual and Educational Journey Into the Wild and Beyond [BMU 303]

Michelle Wurlitzer
At 21, I escaped academia for a year. My adventures during that year included a solo bicycle tour around Northern California, volunteering at a bike shop in Guatemala, working on Common Vision's Fruit Tree Tour, and working as an apprentice on an organic CSA farm. This is my story.



Northern California Regional Land Trust's Beginning Farmer Rancher Development Program [BMU 210]

Noelle Ferdinand, Northern California Regional Land Trust

The Northern CA Regional Land Trust developed a Beginning Farmer and Rancher training program for the North Valley. NCLT developed these workshops in collaboration with a committee comprised of university professors, farmers, economic development leaders, lending specialists, non-profit leaders, and more. This presentation will present an overview of this innovative program.



Gardening with Students: Integration of Content and Real Life Connections [BMU 304]

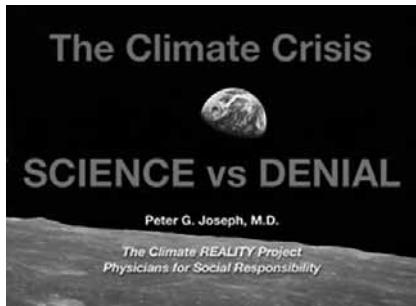
Sally Hedley, Ipakanni Early College Charter School

This workshop will teach educators how to inexpensively set up a garden at their school or youth program. It will instruct on how to integrate other subject matter into garden curriculum and how to teach service learning to a variety of age groups.

Join us at our Saturday Reception from 5:00 p.m.–7:00 p.m. at Common Grounds downstairs in the BMU. Live music and appetizers!



3:00 KEYNOTE SPEAKER—Peter G. Joseph, M.D.



The Climate Crisis: Science vs. Denial

[BMU AUDITORIUM]

Peter G. Joseph, M.D. is an emergency physician trained by former Vice President Al Gore to help educate the public about the devastating impacts of global warming. He will review the latest scientific data and discuss both the technical and political aspects of humanity's greatest challenge.

The Climate Crisis looms as the most serious threat to human civilization. Recent data indicate more rapid warming and accelerating greenhouse gas emissions than previously projected. As the political process addresses the issues, disinformation floods the public space, creating confusion and delay. What must be done to reduce emissions and begin to pull greenhouse gases out of the atmosphere in order to avoid dangerous climate change and to return the Earth to a safe-climate future? How can the public and decision-makers cut through the spin and denial in order to do what is necessary?

TOURS

Some tours may be canceled due to weather or other conditions. Check at the registration desk to confirm the continuance on day of tour.



THURSDAY

Green Living Project's Soltrekker RV

Time: Open All Day

LOCATION: PARKED AT SISKIYOU HALL

The Soltrekker RV is equipped with Solar Panels, Composting Toilet, Water Catchment Systems, Sustainable Wood Floors, Biodiesel engine, LED lighting, and even has Recycled Jeans for insulation.



University Farm—Organic

Vegetable Project and Dairy

Meeting Time: 9:00 a.m.

MEETING LOCATION: BUS LOADING

ZONE WEST OF MERIAM LIBRARY

Tour Time: 9:15–10:30 a.m.

The tour will visit the Chico State Organic Dairy's pastures and milking facilities and the Organic Vegetable Project's greenhouse, field, and hedgerows.

Guided Nature Hike on Big Chico

Creek Ecological Reserve

Meeting Time: 9:15 a.m.

MEETING LOCATION: HWY 32 PARK & RIDE, EAST LOT TO CARPOOL TO RESERVE.

We'll be back on campus by 4:00 p.m.

We will talk about how the University manages this property in a sustainable manner. We will hike through many trails, then head down the hill to the creek for a picnic lunch by the water.

Sierra Nevada Brewing Co.

Meeting Time: 11:00 a.m.

MEETING LOCATION: BUS LOADING

ZONE WEST OF MERIAM LIBRARY

Tour Time: 11:15–12:15

(Lunch on your own at Sierra Nevada, 12:15–1:15)

Tour Sierra Nevada Brewing Co. to see how, and where one of the world's best beers is sustainably brewed. Stay and have lunch on your own at the Sierra Nevada Restaurant and be sure to check out the gift shop. The shuttle will return to campus after lunch to arrive back at CSU, Chico at approximately 1:30.

1078 Gallery Tour: Lentamente

Due, The Art of Slow Food

Time: 12:30–5:30 p.m.

MEETING LOCATION: 1078 GALLERY AT

820 BROADWAY STREET, CHICO, CA

Lentamente, the Italian word for slowly, will be an exhibit of local artists interpretations of the North State seasonal bounty. Join us to celebrate the local food and art

Computers for Classrooms

Meeting Time: 9:00 a.m.

MEETING LOCATION: BUS LOADING

ZONE WEST OF MERIAM LIBRARY

Tour Time: 9:30–10:15

Computers for Classrooms is a sustainable program for Reuse and Recycling of Electronics. Join us on a visit to see how this award-winning program provides refurbished computers to schools, low-income families, and other non-profits.

Campus Sustainability Tour

Time: 3:00–3:50

MEETING LOCATION: ADVENTURE OUTINGS — INSIDE THE BMU GALLERIA

From solar panels to the compost display area to LEED certified buildings, this tour of the campus will highlight many impressive aspects of Chico State's commitment to sustainability.

FRIDAY

Guided Nature Hike on Big Chico Creek Ecological Reserves

Meeting Time: 9:30 a.m.

MEETING LOCATION:

HWY 32 PARK & RIDE, EAST LOT

We'll be back on campus by Noon

We will discuss native plants, fire on the landscape, geology, and the abundant cultural resources. We'll be back on campus by noon.



Chico Unified School District—Solar

Case Study at Chico High School

Time: 10:00–11:00 a.m.

MEETING LOCATION:

STUDENT SERVICE CENTER, RM. 150

This tour will take you to see Chico High School's parking lot solar shade structures.

Farm Sanctuary Tour

Meeting Time: 9:30 a.m.

MEETING LOCATION:

HWY 32 PARK & RIDE, EAST LOT

Tour Time: 10 a.m.–11 a.m.

After meeting our farm animal friends, visitors can browse through our education center, filled with literature, videos, displays, and cruelty-free gift items.

CSU, Chico Arboretum Tour

Time: 3:10–4:00 p.m.

MEETING LOCATION: BMU GALLERIA IN FRONT OF ADVENTURE OUTING AT 3:10

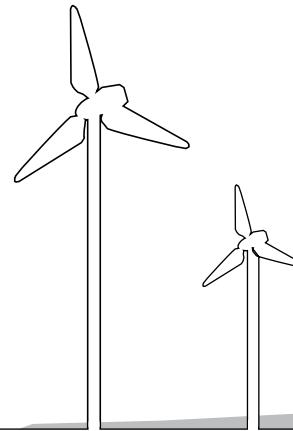
Take a walking tour through our 220 species of woody plants that make up Chico State's amazing arboretum with the one man who for more than half a century has been instrumental in nurturing and defending the campus arboretum: Wes Dempsey, professor emeritus of biology.

Gateway Science Museum Tour

Time: 3:30–4:20 p.m., tours every 15 minutes

MEETING LOCATION: GATEWAY SCIENCE MUSEUM MAIN ENTRANCE

Tour the Gateway Gardens and LEED Building Design. Gateway's unique building and many educational programs inspire visitors of all ages about the history and inherent scientific interest of Northern California.



CONFERENCE HIGHLIGHTS



THURSDAY

Welcome Reception & Awards Ceremony

Time: 6:00–10:00 p.m.

THE CHICO WOMEN'S CLUB, 3RD

& PINE STREETS, CHICO

Registered participants only - RSVP required

This year we will host conference speakers, moderators, award recipients, and conference guests and share local music by Swamp Zen, appetizers by Roots Catering, and a no-host bar.

FRIDAY

Featured Film: Connecting Students to Global Sustainability

Time: 9:00–9:50 a.m.

BMU AUDITORIUM

Green Living Project will showcase cutting-edge sustainability projects across Central and South America, Africa, and North America.

Photo Essay: What We Are Leaving Behind in Iraq

Time: 10:00–10:50 a.m.

BMU AUDITORIUM

Michael Fitzpatrick

The documentary presents some photos and the stories they reveal providing a photo journal of the environmental devastation caused by the war in Iraq.

Local Lunch

Time: noon–1:30 p.m.

BMU AUDITORIUM

Cost: \$6.99 per person, cash only at the door

Includes your choice of tri-tip or grilled eggplant, green salad, served with a slice Tin Roof Bakery bread and a Knudsen Juice Organic Spritzer.

Eco Fashion Show

Time: 12:30–1:00 p.m., during the local lunch

BMU AUDITORIUM

An eco-fashion show displaying designs by Audrey Acosta, fashionable clothing created using recycled textiles as well locally made jewelry and styles from the Chico Salvation Army.

Featured Film: Scarred Lands and Wounded Lives—The Environmental Footprint of War

Time: 4:10–5:30 p.m.

LOCATION: BMU AUDITORIUM

Alice & Lincoln Day

This film aims to give audiences a greater understanding of how human wellbeing depends on the health of the environment, and how, throughout history, the health of the environment has been compromised by war and preparations for war.

Night on the Town

Time: 6:00–8:00 p.m.

DOWNTOWN

Come explore the local cuisine of the town of Chico with your fellow conference participants during the dinner hours. Sign up in advance, 9 a.m. Thursday—1 p.m. Friday, at the registration desk in the BMU Main Lobby. Participants will meet at the registration desk at 5:30 p.m. Friday and will walk as a group to their selected dinner destination.

1078 Reception: Lentamente

Due: The Art of Slow Food

Time: 7:00–10:00 p.m.

1078 GALLERY, DOWNTOWN CHICO

Cost: \$25 per person, (separate fee required). The 1078 Gallery and Slow Food Shasta Cascade cordially invite you to celebrate local food and art with the community and view local artist's interpretations of the North State seasonal bounty.

1078
GALLERY

820 Broadway • Chico, CA 95928
530.343.1973 • 1078gallery.org



Slow Food
SHASTA CASCADE

SATURDAY

Featured Session: Dynamic Balance

Time: 11:00–12:15

BMU AUDITORIUM

Tony "Morgoth" Gamboa

Join Morgoth on a magical journey of the imagination where audience members will dive into the depths of their own souls. This type of free formed experiential learning bridges the gap between idealism and pragmatism, the right and left brain, and dreams and reality.

Come experience a real time analysis of intrinsic motivation superseding extrinsic motivation.

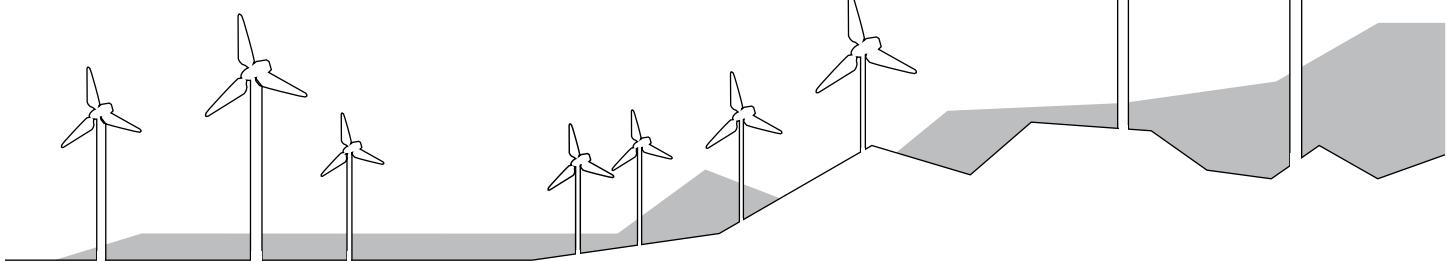
Final Conference Celebration

Time: 5–7 p.m.

BMU COMMON GROUNDS

Entertainment: Live Music by Delayed Reaction

Celebrate the connections and learning provided by This Way to Sustainability Conference VII. All attendees, speakers, and volunteers are invited to join us at the celebration in the BMU Common Grounds. Dance to live music by Smelling Colors and snack on some delicious appetizers. No RSVP required.



SPONSORS

SPECIAL THANKS TO...



The Institute for Sustainable Development (Conference Host)

<http://www.csuchico.edu/sustainablefuture>

The Institute for Sustainable Development at CSU, Chico provides leadership in the development of sustainable solutions to the increasingly complex challenges of tomorrow through on-campus actions and the development of public-private partnership's focused on innovation, communication, conservation and education.



Associated Students, CSU, Chico

<http://www.aschico.com>

Through its Sustainability Fund Allocation Committee, the Associated Students of CSU, Chico is a proud sponsor of the annual This Way to Sustainability Conference. The AS seeks to enrich the quality of campus life at California State University, Chico and to complement the educational mission of the university providing full actualization of the university experience through student governance, Bell Memorial Union facilities, a broad spectrum of programs, services and integral campus commercial enterprises.



Sierra Nevada Brewing Co.

<http://www.sierranevada.com>

Sierra Nevada Brewing Co., located in Chico, CA, is dedicated to making World-class beer while maintaining a triple bottom line—people, planet, profit. At Sierra Nevada, sustainable business means recognizing the environmental impacts associated with our brewery operations and making a conscious effort to reduce that impact. We are committed to leaving the smallest footprint possible without jeopardizing our high standards for quality. We strive to maintain a healthy balance between artisan brewing, environmental stewardship, social equity and economic stability.

Rawlins
Professorship

The Rawlins Endowed Professorship for Environmental Literacy

<http://www.csuchico.edu/nsci/environmentalfocus/rawlins.shtml>

The role of the Rawlins Professorship is to work toward ensuring that all students, regardless of discipline, entering California State University, Chico are engaged in learning experiences that inform them of the current state of the global environment and connect them with solution-oriented approaches that will help shape the future quality of our shared environment.

ADDITIONAL CONFERENCE SPONSORS



EXHIBITORS

Visit our exhibitors in the Bell Memorial Union Auditorium Thursday and Friday from 8:00 a.m. to 4:00 p.m.



CSU, CHICO MAP & ADA INFO



MAP KEY

BMU. Bell Memorial Union

SSC. Student Services Center

DT... Downtown

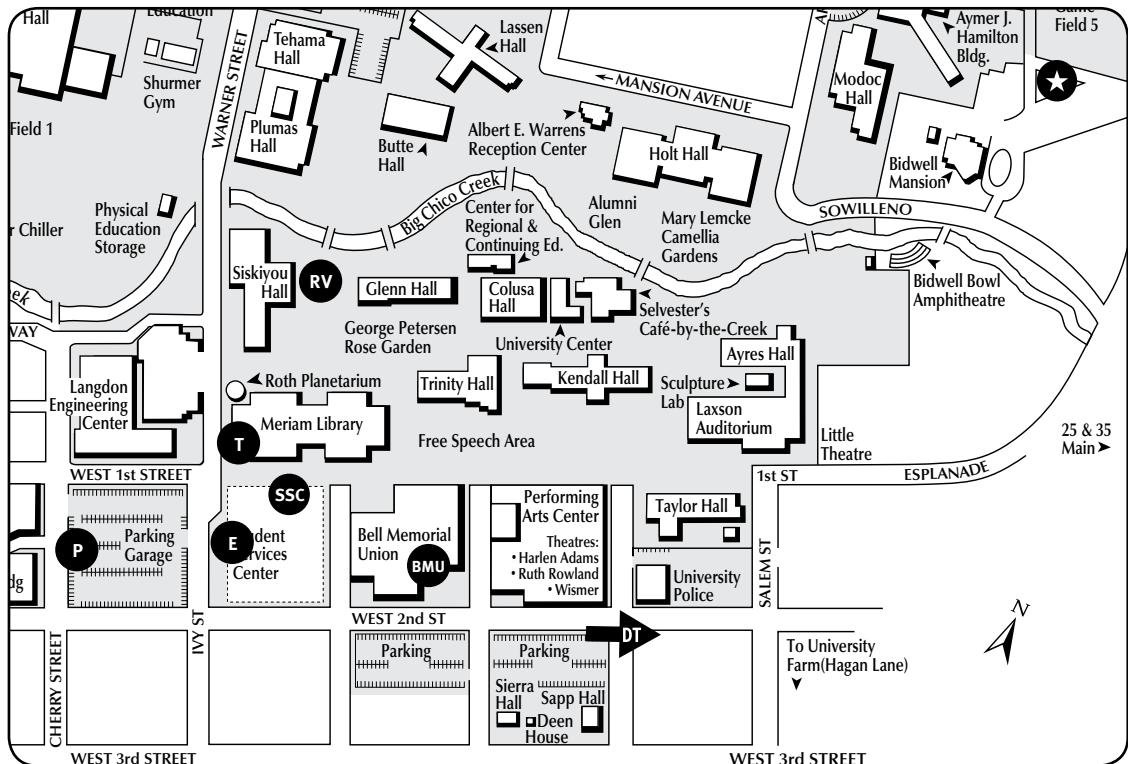
★... Gateway Science
Museum Tour Meeting
Location

E 10 Minute Loading Zone

T Tour Loading Zone

P Parking Garage

RV .. RV Tour



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/



Parking Information

Thursday, March 1st and Friday, March 2nd registered conference participants will be offered a reduced parking rate of \$3.00 per day with a special code only at the following locations:

- Parking structure at 2nd & Cherry Streets
- Only in G parking stalls on the 3rd level.

Registered participants may purchase permits at the reduced conference rate at any of the dispensers in the parking structure. Choose option three on the dispenser and enter in code **0301** only during the conference. Cash, coin, and credit cards accepted. Parking lots are enforced from 7:30 am–10:00 pm. Permits must be clearly displayed on the dash of your vehicle. Parking in any other campus lots will be at the full price of \$5.00 per day.

STEERING COMMITTEE AND CONFERENCE STAFF

Kara Hearn

Sandra Hall

Teri Randolph

Jim Pushnik

Lori Weber

Robyn DiFalco

Fletcher Alexander

Lynsey Sammons

Yesenia Ortiz

Octavia Racy

Sara Schwartz

Katie Barrett

Derek Eid

Janelle Estes

Michelle Libman

Nou Vang

Brian Benbow

Jenna Poell

Gina Meredith

Rebecca Shepler

Ashley Kramer

SUSTAINABLE PRACTICES IN PAPER PRODUCTION



This Way To SustainabilitySM VII programs, posters, and post cards are printed on green seal certified environment[®] pc 100 white. Made with 100% post-consumer fiber; mill process, including packing are environmentally preferable. www.greenseal.org



This PCF certification mark and term are the sole property of the chlorine free products association and are only used by authorized and certified users. 100% post-consumer recycled papers are manufactured from sustainable raw materials and are free of chlorine chemistry. www.chlorinefreeproducts.org



green-e.org

This paper was made with green-e certified 100% renewable green energy. www.green-e.org