

History and Sustainability

Stories of Progress, Hubris, Decline, and Resilience

Annual Conference | April 13 - 17, 2011
Phoenix, Arizona | Wyndham Hotel
Host: Arizona State University

History and Sustainability

Stories of Progress, Hubris, Decline, and Resilience

Host



Sponsors

The American Society for Environmental History (ASEH) and Arizona State University (ASU) would like to thank our conference sponsors, whose generous contributions made this meeting possible:

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- Faculty of Interdisciplinary Humanities and Communication in the ASU School of Letters and Sciences at the Polytechnic campus
- ASU Center for Biology and Society
- National Park Service
- Network in Canadian History and Environment
- Oxford University Press
- USDA Forest Service



The Friday evening plenary discussion on immigration and the environment is made possible by the Arizona Humanities Council.



Program design: Roxane Barwick, ASU

Table of Contents	
Welcome from ASEH's 2011 Local Arrangement Committee	4
Welcome from ASEH's 2011 Program Committee	5
Conference Information	6
Location	6
Accommodations – conference hotel ...	6
Registration	6
Cancellations	6
Transportation and directions	6
Weather	7
Child care	7
Commitment to sustainability	7
Questions?	7
A Brief History of Phoenix	8
Exhibits	10
Poster Presentations	10
2011 ASEH travel grant recipients	11
2010 Hal Rothman Fellowship recipient	11
2010 Samuel Hays Research Fellowship recipient	11
Special Events	11
Workshops and symposia	11
Plenary talks	12
Receptions	13
Breakfasts	13
Banquets	13
Field trips	13
Special workshop for high school students	18
Environmental films	18
Annual Hal Rothman fun(d) run	18
ASEH members’ meeting (business meeting)	18
Registration and Event Fees	19
Conference at a Glance	20
Concurrent Sessions	22
ASEH Committees 2010-2011	42
Index	44
Hotel Map	47
Advertisements	48
Conference Sites Maps	69

Welcome from ASEH’s 2011 Local Arrangement Committee

It’s a sprawling city in a sprawling landscape – the capital of Arizona, the 12th largest metropolitan area in the U.S., a tourist mecca valued for its dry air and sparkling winter sunshine, and a poster child for the ambiguous transition to a service economy. It’s a city framed by stone and saguaro, as stark, sculpted mountains rise above a botanically rich Sonoran Desert in April bloom. We’ll meet after baseball’s spring training season and before the summer’s bleaching sun.

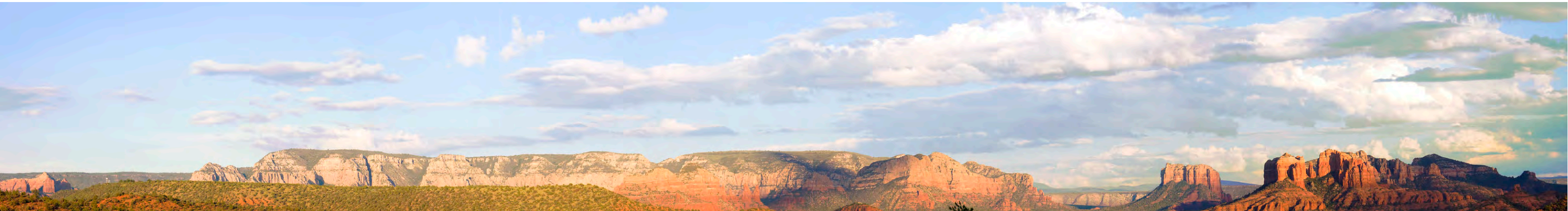
It’s a good place for a meeting themed on sustainability: the paradoxes are unavoidable. A very modern city built on a very old one. A metropolis in a desert. A place where upscale suburbs look across a line in the sand at mountain wilderness. The nation’s largest university by enrollment and among its most green. A postwar car culture amid the largest municipal park in the country. A city founded for irrigation agriculture along a river now used for a sand and gravel pit, save for an artificial lake filled by pumped ground water. Private lands and enterprise meet public lands and common goods. An economy powered by cheap gas and sprawl hit by the Great Recession. The setting itself can serve as a text.

But of course there will be much more. There are field trips to Taliesin West, the Tonto National Forest, and Arizona State University’s Decision Center for a Desert City. There will be birding trips to South Mountain, kayaking on the Salt River, horseback riding at the Fort McDowell Yavapai Nation, cycling along canal levees, and walking through the historic downtown. The U.S. Forest Service is sponsoring a special workshop on Friday to commemorate the centennial of the Weeks Act. ASU’s School of Sustainability is sponsoring a sustainability workshop on Wednesday. Thursday evening will feature a special no-host dinner at Heritage Square, with local organic and sustainable food vendors. Bill Cronon will deliver a plenary talk on “The Riddle of Sustainability: A Surprisingly Short History of the Future.” A second plenary will discuss “Immigration, Borderlands, and the Environment.” The meeting will feature two post-conference field trips: one all-day tour to the US-Mexico border to discuss social justice and environmental issues; the other an overnight tour to the Grand Canyon, where a distinguished panel of international experts will discuss national parks and preserves in Canada, Mexico, and the U.S.

This is certain to be a memorable conference, not to be missed. We look forward to seeing you in Phoenix!

2011 Local Arrangements Team:

- Paul Hirt, Arizona State University (ASU), Chair
- Stephen Pyne, ASU
- Joni Adamson, ASU
- Bonny Bentzin, Director of Sustainability Practices, ASU
- Monika Bilka, PhD student, ASU
- Todd Bostwick, PaleoWest Archaeology and Faculty Associate, ASU
- Robert Coleman, MA student, ASU
- Nancy Dallett, ASU
- Hugh Davidson, Maricopa County Dept. of Transportation
- Cody Ferguson, PhD student, ASU
- Cali McCullough, PhD student, ASU
- Vincent Murray, Arizona Historical Research
- April Summitt, ASU
- Christine Szuter, ASU
- Adam Tompkins, PhD student, ASU



Welcome from ASEH’s 2011 Program Committee

The program committee’s members are very pleased with the range of the program’s sessions, which represents the many innovative proposals that we received. There will be an especially rich set of sessions on the conference theme of sustainability and resilience. Many sessions probe the unsustainable history of our past practices, with an eye to examples of resilience and adaptations, as well as improving resource use. This can assist us as environmental professionals to engage in the broad public debate and help shape policy formation. One roundtable will address the ways our members engage in the public sphere as experts. Another roundtable will present environmental historians’ perspectives on the Gulf oil spill and its long-term impacts. There will be several sessions on climate history. And for our teaching efforts there will be a series of sessions on integrating sustainability themes into the curriculum.

This has been a particularly challenging year for the political pressures that shape our work, notably the turmoil over Hispanic immigration in Arizona and beyond. We have turned that challenge into an opportunity to forge several sessions on the environmental dimensions of large-scale labor migrations. The Friday evening plenary session, advertised widely for the public, will present an outstanding panel of experts on immigration and environment in Arizona. We will also offer a pair of roundtables comparing this situation with other mass migrations globally.

These sessions will build an important bridge between migration historians and environmental historians. They will be enriched by several sessions on other minorities in the United States, probing ethnically differentiated access to resources and exposure to toxins. The ASEH Diversity Committee has worked hard to create panels on the experience of Native Americans in western North America. And several additional sessions probe environmental pressures around Arizona, at the border with Mexico, and through the wider arid Southwest and the trans-border Sonoran region.

Finally, several sessions will specifically address the disciplinary relations between environmental history and related fields in the social and ecological sciences, which will enrich our conceptual frameworks and methodological strategies. The committee considers this a vital aspect of the ongoing work of ASEH, and an important dimension of each year’s conference.

We look forward to important work together in Phoenix.

2011 Program Committee:

- Richard Tucker, University of Michigan, Chair
- Connie Chiang, Bowdoin College
- Michael Egan, McMaster University
- Paul Hirt, Arizona State University
- Laura Watt, Sonoma State University

Conference information

Location

The conference sessions and two of the workshops will be held at the Wyndham Phoenix Hotel, which is a member of Unite Here and was the first unionized hotel in Arizona. The plenary sessions will be held at the Arizona Science Center/ Heritage Square and the historic Orpheum Theater, both located within walking distance of the hotel (see the map at the back of this program). The sustainability workshop and energy symposium will be held on the Tempe campus of Arizona State University, which is accessible by public transportation (see “Special Events” section and maps at the back of this program).

Accommodations – conference hotel

Wyndham Phoenix Hotel
50 East Adams Street
Phoenix, AZ 85004
Phone: 602.333.0000

Rates are \$169/night single or double and \$99/students (limited number available). **Reservations must be completed by March 23, 2011.** Call 1.800.996.3426 or 1.800.996.3426, or contact Wyndham Hotel Reservations online at:
https://resweb.passkey.com/Resweb.do?mode=welcome_ei_new&eventID=2618233

Be certain to mention that you are reserving a room for the ASEH conference.

Registration

For online registration before the conference, see www.aseh.net, “Phoenix conference.” During the conference, the registration desk will be located outside the ballroom (foyer in ballroom level) at the Wyndham Phoenix Hotel, and will be open the following hours:

Wednesday, April 13 - 8:00 a.m. – 6:00 p.m.
Thursday, April 14 - 9:00 a.m. – 5:00 p.m.
Friday, April 15 - 8:00 a.m. – 12:00 p.m.
(break for field trips Friday afternoon)
Saturday, April 16 - 8:00 a.m. – 2:00 p.m.

Cancellations

Cancellations must be e-mailed to director@aseh.net. Requests received by March 23, 2011 will receive a full refund, minus a \$35 processing fee, following the conference. Requests made after March 23, 2011 will receive a refund of the registration fee only, minus a \$35 processing fee. Fees for special events, breakfasts, and field trips will not be refunded after March 23, 2011. Cancellation of rooms must be made through the hotel and are subject to its requirements for notification.



Transportation and directions

The Wyndham Phoenix Hotel is located in downtown Phoenix, on East Adams between Central Ave. and 1st Street, near the Washington Ave. light rail station. It is within walking distance of many restaurants, Heritage Square, and ASU’s Downtown Campus. Public transportation is available from Sky Harbor airport. A free airport shuttle connects to the METRO light rail system. Each of the three terminals at the airport has a designated stop for the METRO shuttle. For Terminal 2, the shuttle stop is in the middle of the terminal, right outside the main doors. For Terminal 3, there are two shuttle stops, both on the Baggage Claim level. One is at the north curb (outer curb, use the crosswalk east of Door #7) and one is at the south curb (outer curb, west end, across from Door #2). For Terminal 4, there are two shuttle stops. One on the north side, Level 1 (outer curb, west end, across from Door #1), and one on the south side, Level 2 (outside Door #22). The airport shuttle

will take you to the light rail station on 44th Street and Washington. Take the westbound train to the fifth stop at Washington and Central. The Wyndham is right across from the rail station on Adams one block north of Washington St.

As of October 2010, the METRO fare from the airport to the hotel was \$1.75. This is the standard one-way fare for all stops on the rail system. You can purchase your ticket at the METRO station fare vending machine. You can pay with coins, bills, credit card or debit card. You can buy a ticket for just one ride, or a one-day pass, a 3-day pass, or a 7-day pass. METRO runs from about 5 a.m. to midnight daily and later on weekends.

Arizona Super Shuttle can be contacted at 602.244.9000; cost is approximately \$12.00 one-way from the airport to downtown Phoenix (reservations recommended). Taxis can be contacted at 602.357.8785; cost is approximately \$20.00 from the airport to downtown Phoenix.

To get to Arizona State University’s Tempe campus from the conference hotel, walk two blocks south and west from the Wyndham hotel to the eastbound light rail station at Jefferson and 1st Ave and take it nine stops to Veteran’s Way and College Ave in Tempe. Walk south on College Ave three blocks to University Dr. Immediately across University Dr. on your right is the Global Institute of Sustainability building where the Sustainability Workshop will be held. For those attending the Energy and Society workshop in the Coor Bldg. room 5536, walk west (right) on University Dr. one block to Forest Ave, walk south (left) on Forest several hundred yards to the large 5-story square blue-glass Coor building. Room 5536 is on the fifth floor. A campus map is included in the

back of this program showing both locations. Volunteer guides will be available Wednesday morning at 7:50 a.m. in the hotel lobby to accompany conferencees taking the light rail from the Wyndham Hotel to ASU for the workshops.

Weather

The desert blooms in April, and we will likely enjoy days of bright sunshine. The average high temperature in Phoenix in April is 85 degrees, with lows around 60 degrees. Average precipitation in April is .3 inches. Sunscreen, sunglasses and hats are recommended, and as always in the desert, drink lots of water.

Child care

Party Sitters is a local childcare service:

Phone: 602.510.7460
Website: <http://www.partysitters.com>
Email: info@partysitters.com

ASEH’s graduate student discussion board is a good place to post requests to trade baby sitting services with fellow ASEH members. See ASEH’s Facebook page for more information.

Commitment to sustainability

This conference will include a workshop on sustainability on Wednesday, April 13 and a sustainability breakfast on Friday, April 15. Food for Thursday evening will be provided by local farmers and food vendors that specialize in organic and sustainable production methods.

ASEH will ensure that waste at the hotel is recycled, and we will provide recycling containers on the field trip buses. We will be using name badges made from recycled paper, and are working with the hotel to get locally grown food for our events. The hotel will also conduct a sustainability audit for ASEH, tracking waste, water and energy consumption; the results will be available in a future issue of our newsletter.

For a description of carbon credits, see ASEH’s website (www.aseh.net, “Phoenix conference”).

Questions?

Contact:
Program: Richard Tucker – rptucker@umich.edu
Local arrangements: Paul Hirt – paul.hirt@asu.edu
Exhibits and posters: Lisa Mighetto – director@aseh.net
Field trips and volunteers: Lisa Mighetto – director@aseh.net or Paul Hirt at paul.hirt@asu.edu
ASEH: Lisa Mighetto – director@aseh.net

A brief history of Phoenix

By *Todd Bostwick, PaleoWest Archaeology and Faculty Associate-ASU and Hugh Davidson, Maricopa County Dept. of Transportation*

Although Phoenix is a modern western city, it has a history that dates back thousands of years. Around AD 300, a farming culture called the Hohokam established itself in the Salt River Valley. For more than a millennium, the Hohokam built hundreds of miles of irrigation canals, lived in large villages with platform mounds and ballcourts, and crafted red-on-buff pottery and marine shell jewelry. In the mid-to-late 14th century, the Hohokam experienced a series of major floods interspersed by deep droughts that stressed their irrigation systems and, combined with social unrest and population pressure, resulted in the collapse of their culture.

The Southwest region was acquired from Mexico in 1848, but Apache and Yavapai Indians made settlement of central Arizona dangerous. In 1865, the US Army built Fort McDowell along the Verde River, a tributary of the Salt River, to help protect the residents of the mining towns of Prescott and Wickenburg.

A mail freighter named Jack Swilling saw remnants of a Hohokam canal and realized that the valley could be farmed by water taken from the Salt River, which then flowed year round. In 1867, Swilling convinced a group of individuals from Wickenburg to clean out a Hohokam canal near Pueblo Grande and to dig new ones, and a rush for new farmland began. By 1870, a 320-acre town site was selected and one of Swilling's partners, an Englishman named Darrel Duppa, gave the new settlement an appropriate name, Phoenix, from the mythical bird that rose from its own ashes. Within the next year, Phoenix became the seat of the newly established Maricopa County, named after a local Indian tribe. In 1889, Phoenix became the territorial capital, even though the 1890 census only counted about 3,000 residents.

A major challenge for the local irrigation farmers was the seasonal fluctuation of the Salt River and periodic destructive flooding. The federal government came to the rescue with the 1902 Newlands Reclamation Act which authorized construction of Roosevelt Dam, located 65 miles northeast of Phoenix and completed in 1911. This dam was the first of seven dams built on the Salt and Verde Rivers to support the Salt River Project (SRP) irrigation district. Agricultural development thereafter fueled the first boom in central Arizona.

Phoenix's hot and dry climate soon attracted affluent health seekers as well as those looking for treatment of respiratory problems. Tourists were encouraged to visit Phoenix and resort facilities sprang up. By 1920, the city's population had risen to more than 29,000 residents. During the 1920s, the

first skyscrapers appeared in Phoenix, South Mountain Park was established (the site for one of our Friday field trips), and Sky Harbor Airport was constructed. City boosters promoted the development of cultural institutions such as the Heard Museum and Pueblo Grande Museum to showcase Arizona's Indian heritage, as well as the Orpheum theatre (the site for our Friday evening plenary).

By 1930, Phoenix had a population of 48,118, making it one of the largest cities in the Southwest, second only to El Paso, Texas. The Great Depression of the 1930s had an impact on Phoenix, but not to the same degree as other cities. Most Phoenix residents had not invested in the stock market and the region received a considerable amount of New Deal money, more than \$10 million annually. The 1930s also produced major advances in the air-conditioning industry in Phoenix, which spurred additional residential growth. By 1940, more than 65,000 people lived in Phoenix.



Due to the construction of several military training and manufacturing bases near Phoenix, World War II created an economic boom, resulting in a population explosion that allowed it to surpass El Paso as the largest city in the desert Southwest. After the war, many service men and women settled in Phoenix and a post-war population boom was underway in the "Valley of the Sun." A growth alliance of real estate, construction, and finance interests propelled an extraordinary metropolitan expansion. Nearly two dozen little towns scattered across the valley grew into one of the nation's largest metropolitan regions. Phoenix, at the core of this urbanization, expanded from 17 square miles and 107,000 residents in 1950 to 250 square miles and 584,000 residents by 1970. Central Arizona was on its way to becoming a poster child for sunbelt suburban sprawl.

While legendary developers such as the Womack brothers, John F. Long, and Del Webb blanketed the lower elevations with housing subdivisions, Maricopa County planners, citizen conservationists, and political notables like Barry Goldwater worked to preserve desert mountain sanctuaries as county

parks. The growing electronics industry, notably Motorola in Phoenix and Scottsdale, marked the shift westward of the nation's information-age infrastructure. Touted as a "clean" industry by mid-century chambers of commerce, the legacy of high-tech manufacturing in the region includes toxic plumes in the soil and groundwater.

One of the earliest examples of a master-planned retirement community is Del Webb's Sun City founded in 1960 in unincorporated western Maricopa County, and profiled in John Findlay's *Magic Lands*. Many others have sprung up since then. From the 1960s onward, the home-building industry has been the economic heart of the region. In the year 2000 new home starts in the metropolitan area topped 36,000 per year, a sustained tide until the current financial crisis caused by the collapse of the housing bubble.

How did this modern-day "Oasis Culture" fulfill its water needs? By expensive federal water projects and unsustainable groundwater pumping. Besides the Salt River Project, which delivers about a third of the valley's water, the federal government in the postwar era built the Central Arizona Project Canal, which pumps Colorado River water 300 miles to the urban desert interior of the state. Ostensibly, this federal reclamation water was supposed to help wean Arizona from its excessive groundwater pumping that was emptying the region's aquifers, but continued growth and a libertarian culture has largely foiled efforts to end groundwater depletion. Phoenix and the 22 other cities and Indian reservations in the valley have serious long-term issues to solve regarding water use, especially with climate change projected to reduce the flow of the Colorado River. Storage at Hoover Dam-Lake Mead now hovers at a record low. Two of the conference field trips address water issues in the valley: one is a bicycle ride along one of the valley's canals and the other is a visit to ASU's Decision Center for a Desert City.

Phoenix's population is and has always been diverse; although as geographers Daniel Arreola and Alex Oberle convincingly demonstrate, the city's history has been "white washed." Phoenix's founding census in 1870 listed 50% of its inhabitants as having Mexican origin. Jack Swilling merits notoriety as a city founding father, but his Sonora-born wife, Trinidad Escalante, rarely mentioned in history books, was equally a founding mother of Phoenix, outliving her spouse, remarrying, and raising a Phoenix family of seven. The founding agricultural infrastructure of the entire Salt River Valley owes most of its existence to prodigious Mexican labor and knowledge. Today Hispanic/Latino landmarks dot the area communities, including the Santa Rita Center, site of Arizona native Cesar Chavez's hunger strike for farmworker rights.

In the seventies, resident African-Americans in Phoenix surpassed the 30,000 mark, many of them settling in Phoenix neighborhoods south of the Southern Pacific Railroad tracks. For decades racially restrictive covenants segregated blacks to the area south of Van Buren Street. The Civil Rights era drew Dr. Martin Luther King to town on two occasions, in 1963 and 1965, and local black leadership parlayed these visits into action to bring Phoenix institutional segregation to an end during that era.

Only recently has the Asian American contribution to Phoenix history been brought to light. The Chinese presence in Phoenix dates to its formative years (1870s), with substantial

laundry, restaurant, and vegetable garden operations bemoaned as too successful by the Anglo-owned *Gazette* newspaper. Madison Street and Second Street formed the heart of the city's earliest Chinatown. While never numerous, Japanese farmers struck a notable presence on the Phoenix scene. In the late forties Kajiuro Kishiyama and Ben Nakagawa helped found south Phoenix truck farms and prodigious flower operations along South Mountain's northern flank that achieved statewide renown.

At the turn of the twenty-first century a new urban phenomenon took hold. Former irrigation farm centers such as Buckeye, Chandler, and Gilbert transformed into post-modern boomburbs on Phoenix's peripheries. Spawned on subdivided farm acres, developers offered architecturally-themed residential communities with dispersed retail centers. The boomburg communities were founded on the principal of autonomous home ownership, low taxation and limited local government authority. Community developers-as-founders resisted municipal governance and usual city services in favor of loose-knit home owners associations (HOA). Under economic duress today boomburg municipal governments are ill-equipped to cope as HOAs are abandoned by deeply indebted mortgage holders.

All places are paradoxes in their own way. Many of those that characterize Phoenix touch on issues of sustainability. This is a city built on cheap land, cheap water, cheap gas, and most recently cheap money. Private land now abuts reserved land; no new sources of water exist; pricier gasoline will make binding the city together more difficult; and easy money to fill the potholes of a cratered economy will likely shrivel.

Planning, conservation, a commitment to the common good, progress not based on consumption – whether such proposed solutions can find traction on the endless asphalt is unclear; but a sense of urgent need is another reason why the National Science Foundation selected the Central Arizona-Phoenix area as one of its two urban long-term ecological research sites. Ultimately, Phoenix's future may depend, as it has in the past, on the simple belief that a better future is possible.

Phoenix grew suddenly over the past 70 years without much to guide it. It is a cameo of postwar America, a new city that lacked an older city to flee from, build upon, inspire or inform. The past is there but typically lost in the diffusion of suburbs. In more humid regions the sprawl is often hidden under clouds, old farmland, and woods. But the dry air and bright sun that have always been among Phoenix's assets reveal with unblinking clarity the city's flaws as well as its promise.

For more information about the region and its history, see:

Heard Museum: <http://www.heard.org/>

Pueblo Grande Museum: <http://www.pueblogrande.org/>

Desert Botanical Garden: <http://www.dbg.org/>

Exhibits

The exhibits are located in the Grand Ballroom of the Wyndham Phoenix Hotel, where coffee, tea, and pastries will be provided during the morning breaks, sponsored in part by University of Washington Press.

Hours:
Thursday, 9:00 – 5:00
Friday, 8:00 – 12:00 noon (afternoon break for field trips)
Saturday, 8:00 – 2:00

The following publishers and organizations have reserved tables as of January 2011:

Adam Matthew Digital
American Society for Environmental History
ASU Public History and Scholarly Publishing Programs
Forest History Society
MIT Press
Oregon State University Press
Oxford University Press
Prescott College and the Indian Land Tenure Foundation
Rutgers University Press
The Scholar's Choice
University of Arizona Press
University of California Press
University of Georgia Press
University of Massachusetts Press
University of Nevada Press
University of North Carolina Press
University of Pittsburgh Press
University of Virginia Press
University of Washington Press
University Press of Kansas
Yale University Press

Special Displays:

Continental Divide: Borderlands, Wildlife, People and the WALL, curated by Krista Schlyer and sponsored by the International League of Conservation Photographers. The images in this exhibit were taken by a group of 13 photographers who traveled 2000 miles documenting the land, wildlife and people of the borderlands, and the impact the wall is having on them. The exhibit debuted on April 29, 2009 on Capitol Hill in Washington, DC. <http://www.ilcp.com/?cid=188>

National Park Service Trail Signage project for Montezuma Castle, Montezuma Well, Tuzigoot, Sunset Crater, and Wupatki National Monuments, by faculty and graduate students of ASU's Public History and Scholarly Publishing Programs in the School of Historical, Philosophical, and Religious Studies. The team created 35 ethnobotanical signs and over 60 interpretive signs on the monuments' geology, archaeology, history, stewardship, meaning, and significance. The interpretation aims to present to the public the best possible synthesis of scholarship and a variety of perspectives on these federally managed cultural landscapes.

Poster presentations

The posters will be displayed throughout the conference in the Grand Ballroom and authors will be available to discuss their research on Saturday morning, April 16, 10:00 – 10:30. We have reserved space for the following posters:

Ulrike Anders, Georg-August-University Göttingen, Germany, "Changes in legal regulations visible in the landscape of Göttingen, Germany"

Soraya Baselious, Stony Brook University, "The Greening of Johnny Appleseed: A Century of Visual Images"

Maria Bohn, Royal Institute of Technology, Sweden, "Carbon Dioxide Measurements in Scandinavia ca 1890-1960"

Christopher Boyer, University of Illinois-Chicago, "The Ecology of Bracero Migration"

Jennifer Corrinne Brown, Washington State University, "Trout Empire: Sport Fishing and Worldwide Trout Introductions"

Kristin Gade, AECOM, "Useful yesterday, invasive today: Landscape function, human perceptions, and the history of salt cedar (Tamarix spp.) in the western United States"

Cynthia Haller, York College/City University of New York, "Defining Space: Rhetorical Complexity in the Establishment of Everglades National Park"

Wilko Graf von Hardenberg, Università di Trento, "Golden Eagles in the Alps: An Historical Population Trend Analysis"

William Knight, Carleton University and Lauren Wheeler, University of Alberta, "Place and Placelessness: Creating Graduate Student Networks in Environmental History"

Cheri LaFlamme, Middle Tennessee State University and the MTSU Center for Historic Preservation, "An Urban Oasis: Fort Negley Comes Full Circle"

Linda Richards, Oregon State University, poster sponsored by ASEH's Diversity Committee: "Environmental Justice in Arizona," Dine College Students

Steve Rodriguez, UCLA, "Globalization and the Dilemma of Conflicting Models of National Parks in Developing Nations"

Gregorio Santiago, University of Central Arkansas, "Dethroning King Corn"

Lise Sedrez, CSULB, "Large spills, small leaks – mixing oil and water in Guanabara Bay, 1965-2001"

Nancy Slack, The Sage Colleges, "G. Evelyn Hutchison: Environmentalist"

Jana Sprenger, Goettingen University, "Evil Insects – Animal Pests in Forestry of Northeast Germany (1700-1850)"

Linda Wood, Northern Arizona University, and Paul Hirt, ASU "Interpreting America's Historic Places: Nature, Culture, and History at the Grand Canyon"

2011 ASEH travel grant recipients

Congratulations to the following recipients of ASEH travel grants to this conference:

Minority travel grants:

Alyssa Warrick
Vandana Baweja

Named travel grants:

John D. Wirth Travel Grant for International Scholars: Ranjan Chakrabarti

E.V. and Nancy Melosi Travel Grant: Elsa Devienne

Morgan and Jeanie Sherwood Travel Grants: Leila Marie Farah and Kara Schlichting

Ellen Swallow Richards Travel Grant: Abigail Schade

Donald Worster Travel Grant: Michitake Aso

J. Donald Hughes Travel Grant: Frank Thomas

Additional travel grants:

Jean-François Mouhot
Nicholas Orsillo
Andrew Watson

2010 Hal Rothman Fellowship recipient

Bartow Elmore, University of Virginia

2010 Samuel Hays Research Fellowship recipient

Lisa Brady, Boise State University

Special events

Workshops and symposia

"History and Sustainability: Research, Curriculum, and Organizational Transformation"

Sponsored by ASEH and ASU's Global Institute of Sustainability

Wednesday, April 13, 9:00 a.m. – 4:00 p.m.

GIOS room 481, Arizona State University, Tempe campus (see "transportation and directions" section of this program for instructions on taking the light rail from the hotel to campus)

The goal of this workshop is to create a cohort of environmental historians who will together use the tools of their discipline to engage more directly with campus greening initiatives in research, operations, and curriculum. This workshop will feature interactive sessions led by renowned scholars and practitioners of sustainability research, teaching, and organizational transformation. Co-sponsored by the ASEH Sustainability Committee and ASU's Global Institute of Sustainability, the workshop will explore the role of historians and historical perspectives in sustainability initiatives. If you are teaching sustainability or would like to integrate sustainability curriculum into your courses, this is a workshop for you. If you are involved in or hope to become involved in collaborative interdisciplinary research initiatives on sustainability questions, this is a workshop for you. If you are active in campus greening efforts or would like to contribute to sustainability initiatives on your campus, this is a workshop for you. Don't miss this opportunity to network with like-minded colleagues and acquire tools, strategies, and allies for integrating history with the rapidly growing discipline of sustainability studies. Participants and facilitators include William Cronon, University of Wisconsin, Peggy Bartlett, Emory University, Sander Van Der Leeuw, Arizona State University and Jim Feldman, University of Wisconsin Oshkosh.

Sign-up required; see conference registration form.

"Energy Transitions in Society: Historical Perspectives and Contemporary Challenges"

Wednesday, April 13, 9:00 a.m. – 4:00 p.m.

Coor Bldg room 5536 , Arizona State University, Tempe campus (see "transportation and directions" section of this program for instructions on taking light rail from the hotel to campus)

Energy is fundamental to human societies, and energy transitions have gone hand-in-hand with economic and political transformation for at least the past 400 years. Sponsored by the Consortium for Science, Policy, and Outcomes and ASU Lightworks, this workshop will explore energy transitions in both historical and contemporary contexts, seeking to understand more deeply how energy transitions happen and what they mean for the societies that go through them. We invite anyone interested in energy, technology, environment, and society to join us for a day of provocative and stimulating conversation. No sign-up required.

"Environmental Justice in Arizona and Beyond"

Friday, April 15, 8:30 – 12:00 noon
Conference hotel, Salon 6 (conference level)

Organized by ASEH's diversity committee, this half-day public workshop will cross cultural and socio-economic boundaries, combining historians of ASEH with indigenous and environmental justice scholars, grassroots groups, and elders of the Navajo Nation. The workshop will provide

interaction between the educators who teach, study, and write environmental history with those living with the effects of resource extraction and uranium contamination on the Navajo Nation. We will view the award winning documentary “The Return of Navajo Boy,” introduced by the film producer and director, Jeff Spitz, and two Navajo Nation elders who are featured in the film: Elsie Mae Begay and Perry Charley. The film resulted in reuniting a family, compensation for a former uranium miner, and an investigation of contamination in homes built with radioactive debris from uranium mines. The Navajo (Diné, “the People”) have been disproportionately exposed to pollution from resource extraction.

After the 75 minute film, the three will be joined by additional presenters to share their perspectives and discuss with the audience the challenges to the sustainability and health of the Navajo Nation. Lori Goodman, belongs to Diné Citizens Against Ruining our Environment (Diné CARE), an all-Navajo environmental organization that helped pass the Radiation Exposure Compensation Act (RECA, 1990) and is currently resisting the development of the Desert Rock Coal Plant. Samantha Chisholm Hatfield is one of the first Oregon State University PhD students to complete an Environmental Science dissertation on the TEK of the Siletz Tribe in 2009 and she will add her perspective as a TEK educator. Sylvia Hood Washington, an expert in environmental justice issues, will add a broader context to the discussion. Laurel MacDowell brings her expertise on uranium issues in Canada.

Moderator: Laurel MacDowell, (University of Toronto)
Elsie Mae Cly Begay (Diné)
Perry Charley (Diné, Diné College’s Uranium Education Project and Environmental Institute, NAS Committee on Improving Practices for Regulating and Managing Low-Activity Radioactive Wastes)
Jeff Spitz (Executive Director, Groundswell Educational Films)
Samantha Chisholm Hatfield, PhD (Siletz-Cherokee, Oregon State University)
Lori Goodman (Diné CARE)
No sign-up required.

“Fire and Water: A Century of Cooperative Forestry”
Sponsored by the USDA Forest Service

Friday, April 15, 8:30 – 12:00 noon
Conference hotel, Maricopa (meeting level)

This half-day workshop (8:30-12:00 noon), sponsored by the USDA Forest Service, will include discussions with agency employees from the Regional Headquarters in Albuquerque and the National Headquarters in Washington, DC; a former attorney from the Office of General Counsel, Department of Agriculture; private land managers from the Malpai Borderlands Group; and a variety of scholars. It will be followed by a field trip to the Sears-Kay Ruin site on Friday afternoon, for a short walk and discussion of wildland - urban interface challenges. This event is free, but sign-up on the conference registration form is required.

Plenary talks

Welcome and sustainability address by Arizona State University President Michael Crow

Thursday, April 14, 8:00 - 8:45 a.m.
Conference hotel, Pueblo Room

The conference will open Thursday morning with a brief address on the conference theme of Sustainability by Arizona State University President Michael Crow, whose tenure at ASU has been marked a number of important milestones, including major campus sustainability investments, interdisciplinary sustainability research initiatives, and the establishment of a School of Sustainability offering BA, BS, MA, MS, and PhD degrees.

William Cronon, “The Riddle of Sustainability: A Surprisingly Short History of the Future”
co-sponsored by Arizona State Univeristy and the Julie A. Wrigley Lecture Series

Thursday, April 14, 7:15-8:30 p.m.
Arizona Science Center

There is a no-host dinner scheduled prior to this event in the adjacent Heritage Square, where conference attendees can view historic buildings and purchase dinner from local organic and sustainable vendors.

Special plenary session and discussion on immigration, borderlands, and the environment

Friday, April 15, 6:00-7:15 p.m.
Orpheum Theater

Confirmed speakers include Carlos de la Parra, editor, *A Barrier to our Shared Environment: The Border Fence between the United States and Mexico*, and current Minister of Environmental Affairs in the Mexican Embassy in Washington, DC; Jenny Neeley, Sky Island Alliance and Thomas Sheridan, Department of Anthropology, University of Arizona. We have also invited Congressman Raúl M. Grijalva, Arizona’s 7th District.

Receptions

Opening reception
Sponsored by Oxford University Press

Wednesday, April 13, 6:00-8:00 p.m.
Conference hotel, poolside terrace

No-host dinner at Heritage Square

Thursday, April 14, 5:45 p.m. – 7:00 p.m.
Heritage Square

View historic buildings and purchase dinner from local organic and sustainable food vendors, including Tamale Store, Saffron Kitchen, and Salsa King, all with meat and vegan options. Other vendors will also be at the event, selling desserts, citrus, sides, and small gifts. Event precedes William Cronon’s plenary talk at the Arizona Science Center, located adjacent to Heritage Square. Sponsored by the Faculty of Interdisciplinary Humanities in the ASU School of Letters and Sciences at the Polytechnic campus, and the Arizona Community Farmers’ Markets.

Graduate student reception
Co-sponsored by ASU Public History Program and ASU Center for Biology and Society

Thursday, April 14, 9:00 – 10:00 p.m.
Goldwater Room (lobby level)

Breakfasts

Sustainability
Friday, April 15, 7:15-8:15 a.m.
Pima Room (conference level)

Forest History Society
Friday, April 15, 7:15-8:15 a.m.
Havasupai Room (conference level)

Envirotech
Saturday, April 16, 7:15-8:15 a.m.
Pima Room (conference level)

Climate History
Saturday, April 16, 7:15-8:15 a.m.
Havasupai Room (conference level)

Banquets

ASEH President’s banquet
President Harriet Ritvo will deliver her talk “Wild Things.”

Thursday, April 14, 12:30 – 1:45 p.m.
Goldwater Room (lobby level)

No-host bar in front of Grand Ballroom, Saturday evening, 6:30 p.m.

ASEH awards ceremony

Saturday, April 16, 7:00-7:45 p.m.
Grand Ballroom (ballroom level)

Including a presentation of ASEH’s awards: best book in environmental history, best article in *Environmental History*, best article outside *Environmental History*, Distinguished Service award, and best dissertation.

Buffet dinner and live music
sponsored by School of Community Resources and Development, ASU-Downtown campus

Saturday, April 16, 7:45 p.m. – 10:00 p.m.
Conference hotel, poolside terrace

This event will include a buffet and live music, featuring environmental and historical ballads by the Colorado River runners band “The But Pygmys” (named after a John Wesley Powell quotation).

Field trips

Pre-conference birding field trip, April 12-13:
Trip leader: Fritz Davis, Florida State University

Given the considerable interest and excellent opportunities for birding in Southeast Arizona, ASEH is sponsoring a pre-conference birding trip for April 12 and 13, 2011. April is a transitional month in Arizona with permanent and summer resident species arriving to establish nesting territories, as migrant birds pass through to parts north. Wintering species occasionally linger. Some of the typically Mexican species, for which Arizona is renowned, may have returned as well, although most of these birds arrive later. The ASEH trip has two destinations: The Gilbert Water Ranch in the East Valley (Tuesday) and the Pinal Mountains (Wednesday). The water ranch will provide the opportunity to consider water as a scarce resource and to study the implications of wastewater reclamation for humans and wildlife. The Pinal Mountains offer a study in ecozones as we will move from riparian and chaparral at lower elevations to ponderosa pines and oaks at middle elevations to firs and aspens. The one and a half day trip will cost about \$75 per participant, depending on the number of participants.

The weather will be relatively cool (for Arizona), perhaps reaching into the 60s and low 70s at the top of the mountain. If it is a rare cloudy day, it will be a bit cooler. Bring layers. Pre-conference birding field trip itinerary follows:

Tuesday, April 12:

12:00 noon
Participants should arrive at the Phoenix Airport and transfer to the conference hotel to store luggage.

2:00-5:00 p.m.
Meet in hotel lobby at 2:00 p.m. Birding at Gilbert Water Ranch in the East Valley. This water reclamation facility has provided excellent habitat for a variety of water birds including migrants and possibly unusual water birds (Wood Stork, Purple Gallinule, Roseate Spoonbill, Black Skimmer have all turned up there, very rarely). Water is a scarce resource in the Southwest and the history of facilities like this one has implications for humans as well as wildlife.

6:00 p.m. return to conference hotel.

Wednesday, April 13:

We depart the conference hotel at 5:00 a.m. (meet in the lobby). We will travel to the lower slopes of Pinal Mountain just above the cities of Globe-Miami. Here riparian vegetation and extensive chaparral should yield resident Black-chinned Sparrow, Crissal Thrasher, Juniper Titmouse, and Rufous-crowned Sparrow. Early-returning migrant nesting species here should include Scott’s Oriole and Gray Vireo. Many lizards, mammals and several butterflies should be here, and at the other locations as well.

Higher up in the Ponderosa Pines and Oaks we have a chance for passage migrants, such as Hermit Warbler, Townsend’s Warbler, Green-tailed Towhee, and perhaps a lingering winter resident such as Williamson’s Sapsucker. Nesting migrants, such as Red-faced Warbler, Grace’s Warbler, Painted Redstart, Virginia’s Warbler, Hepatic Tanager, Zone-tailed Hawk, Magnificent Hummingbird and Broad-tailed Hummingbird will be just arriving and establishing territories. Resident species in this habitat are Pygmy Nuthatch, Mountain Chickadee, Olive Warbler, Red Crossbill, and, if we are lucky, Goshawk.

At the highest elevations (7000 ft) we will bird the Douglas firs and aspens for resident Yellow-eyed Junco and Wild Turkey as well as passage migrants including Rufous and Calliope Hummingbirds, and MacGillivray’s Warbler.

If time allows, on our return to Phoenix we will stop in the town of Superior to look for Pyrrhuloxia, Northern Beardless Tyrannulet, Lucy’s Warbler and other Sonoran Desert species that reach their upper limits here. We’ll return to the hotel in time for the opening reception.

Instructions for signing up: If you are interested in joining this two-day event, please contact director@aseh.net and note “birding trip” in the message title. We are not collecting registration fees for this event, and hope to organize it in more detail once we know how many people sign up. We’ll collect money for transportation and food (approximately \$75) at the event.

Friday afternoon field trips (8 options), April 15:

Instructions: sign-up on the conference registration form is required for all eight Friday afternoon field trips. Field trips 1-5 include bus transportation. Meet your bus outside the hotel on 1st Street by 12:15 p.m. Field trips 6-8 include walking or public transportation. Participants will meet in the following conference hotel session rooms by 12:15 p.m.: Field Trip #6 meet in Salon 6 (meeting level); Field Trip #7 meet in Salon 7 (meeting level); Field Trip #8 meet in Salon 8 (meeting level).

**Field Trip #1- Frank Lloyd Wright’s Taliesin West
Trip Leader: Nancy Dallett, Arizona State University**

Meet your bus outside the hotel on 1st Street by 12:15 p.m. Frank Lloyd Wright began building a “Desert Camp” in 1937 in the beautiful Sonoran Desert in the foothills of the McDowell Mountains in northeast Scottsdale. He built it as his home, studio, and architectural campus for the Taliesin fellows, and they planned to live there each winter to escape the harsh Wisconsin weather. Taliesin West, as conceived by Wright, was to be a bold new endeavor for desert living--“a look over the rim of the world,” in the architect’s own words. Taliesin West would serve as Wright’s architectural laboratory for more than 20 years. There he tested design innovations, structural ideas, and building details. Taliesin West was for many years Wright’s winter “camp” where he and his young apprentices took on the task of building their home, shop, school and studio, all the while responding to the dramatic



desert setting. Today Taliesin is hoping to be designated a World Heritage Site for its association with a master architect, being a birthplace of American organic architecture, and a dramatic example of environmental sustainability and collective community living. This specially designed tour for ASEH visitors will take you through all of the buildings, including the newly restored living quarters, the Garden Room, Mr. Wright’s office, Mr. and Mrs. Wright’s bedroom, and the three theaters. Next year, ASEH’s 2012 conference in Madison will further explore Frank Lloyd Wright’s architecture in the Madison area.

**Field Trip #2 – Sears-Kay Ruin site, Tonto National Forest
Trip Leader: Lincoln Bramwell, USDA Forest Service**

Meet your bus outside the hotel on 1st Street by 12:15 p.m. This field trip to Tonto National Forest will follow the forest history workshop on Friday morning. Sponsored by the USDA Forest Service, it will include a short walk and will feature stunning views of the desert and the Phoenix foothills. Archaeologists, law enforcement officers, fire fighters, and recreation specialists will discuss issues associated with forest management in close proximity to a metropolis.

**Field Trip #3 - Birding at South Mountain Park
Trip Leader: Fritz Davis, Florida State University**

Meet your bus outside the hotel on 1st Street by 12:15 p.m. This field trip is one of several designed for those who want to spend as much time as possible outdoors. The two destinations are only 20 minutes from downtown Phoenix and the conference hotel. The first destination is the Audubon Society’s new Rio Salado Nature Center <http://riosalado.audubon.org/> on a stretch of the Salt River that runs through the urban heart of Phoenix. This normally dry and formerly abused section of the Salt River is being incrementally transformed into a linear park. The Audubon Society and local charitable foundations have restored some riparian habitat and built an educational center to profile the ongoing ecological restoration. The nature center, completed in 2009, was the first building in Phoenix to be given a LEED Platinum designation by the US Green Building Council. Sonoran desert riparian species are likely to be encountered here. Tice Supplee, Director of Bird Conservation for Arizona Audubon, will be our host. After about 90 minutes at this location, we will continue a short distance to South Mountain Park <http://phoenix.gov/PARKS/hikesoth.html>, which is often touted as the largest city park in America at 16,000 acres. It is a rugged, saguaro cactus studded mountain range rising up several thousand feet from the valley with 51 miles of trails and excellent views of the Greater Phoenix metropolitan area that surrounds it. We will hike several trails in search of a wide variety of Sonoran desert avian species. *Bring sturdy hiking shoes suitable for walking on rocky ground, lightweight and light-colored clothes, a hat or visor, sunglasses, sunscreen, and binoculars.* This is spring migration season so we should see a good variety of desert birds such as Rock Wren, Canyon Wren, Gila Woodpecker, Anna’s Hummingbird, Canyon Towhee, and Black-throated Sparrow. We should find a few migrant species as well (hummingbirds,

warblers, sparrows, etc.).

**Field Trip #4 - Horseback riding along Verde River
Trip Leader: Bonnie Kline**

Meet your bus outside the hotel on 1st Street by 12:15 p.m. Participants will travel to Fort McDowell Adventures on the Fort McDowell Yavapai Nation’s facility to embark on a 1.5 hour horseback ride in the Lower Verde Valley. Riders will travel through desert and riparian environments, riding through the Verde River multiple times. The Verde River has the highest density of breeding Southern Bald Eagles in Arizona, so sightings are possible. Horseback riders will enjoy scenic panoramas of Four Peaks, Red Mountain, Mazatzal Mountains, and the McDowell Mountains. Dress: long pants, hat, sunscreen, and sunglasses. Website: http://www.sonoranadventurecenter.com/daytours/horseback_riding.html

**Field Trip #5 – Kayaking
Trip Leader: Adam Tompkins, Arizona State University**

Meet your bus outside the hotel on 1st Street by 12:15 p.m. This 2-hour kayaking trip will set off from Saguaro Lake Ranch and travel down the Salt River. Both the ranch, constructed in 1930, and the portion of the river that kayakers will paddle lie northeast of Phoenix in the Tonto National Forest. Kayakers will paddle downstream beneath towering cliffs and through a lush riparian area of the Sonoran Desert. Deer, wild horses, bald eagles, great blue herons, and a variety of other birds frequent the river at this time of year. Certain portions of the river run quick with ripples, but there are no areas requiring technical navigation. It will be a nice introduction to kayaking for beginners. (If river levels are unsuitable for kayaking, participants will paddle Saguaro Lake instead.) Bring hat, sunscreen, and sunglasses. Website: <http://www.saguarolakeranch.com/kayaking.html>

**Field Trip #6 - Bicycling along the canalscape
Trip Leaders: Cody Ferguson and Nathan Hallam, Arizona State University**

Meet in Salon 6 at 12:15 p.m. One of the most common questions Phoenicians are asked by visitors is how a metropolitan area of this size can exist in a land of so little water—“aren’t you worried? What are you going to do when you run out of water?” Indeed, these are perplexing and serious questions. In this approximately 2.5 hour bicycle tour of the water, electricity and green way systems that run through north Tempe and south Scottsdale along the cities’ Salt River Project canal systems, we will explore the issue of water supply and scarcity and how a large (and growing) urban population manages to live in the desert. The tour will tie together the natural and human history of the east Phoenix Valley as we visit the Tempe Town Lake, Papago Park, and ride along the Kyrene and Arizona Canals. We will examine how Arizonans obtain and provide the two essential components of growth—water and electricity—and how Phoenicians relate to water use, recreation and an evolving sense of natural beauty. We

will eat a picnic lunch at the beginning of the trip. Each participant should bring sunscreen or some kind of sun protection, and a small backpack for carrying water.

Field Trip #7 - Walking tour of historic downtown Phoenix

Trip Leaders: Marsha Weisiger, University of Oregon, Roger Brevoort, and Hugh Davidson, Maricopa County Public Works Dept.

Meet in Salon 7 at 12:15 p.m.
This walking tour will include the historic Orpheum Theater, completed in 1929 and located adjacent to the conference hotel. It will focus on three environmental themes: the historic figures who were instrumental in creating and managing the Salt River Project; the largely Craftsman architecture, which was in part a response to the desert environment; and the emergence of a historic preservation movement in Phoenix, in response to the development of the Papago Freeway.

Field Trip #8 – Water in a desert metropolis
Trip Leaders: Paul Hirt and Dave White, Arizona State University

Meet in Salon 8 at 12:15 p.m.
We invite you to travel with us to learn about the many possible futures of water supply and management in this desert metropolis. Our tour host is ASU’s Decision Center for a Desert City (DCDC) <http://dcdc.asu.edu/dcdcmain/index.php> and its partner organization, the Decision Theater <http://dt.asu.edu/>. DCDC is a unique “boundary organization” where knowledge, insights, and community collaboration emerge from dialogue between academics, policy makers, NGOs and businesses to address sustainability challenges. DCDC will provide lunch at its facility in downtown Tempe, introduce participants to its research programs, and then provide a 60 minute demonstration of the state-of-the-art Decision Theater where you will experience WaterSim <http://watersim.asu.edu/>, an interactive, visualization theater that creates “what if” scenarios about urban growth, water consumption, and sustainability outcomes for the Phoenix metropolitan area. This is a unique opportunity to experience a 280-degree video projection technology designed to help researchers and policy makers address water sustainability challenges. Following the WaterSim demonstration, we will walk six blocks to the Salt River where the City of Tempe has constructed a novel water feature called Tempe Town Lake in the Rio Salado re-development corridor. Critics and defenders of this “lake” will be on hand to share their perspectives about water management in a desert city.

Calle 16 tour of neighborhood mural art, April 16

Saturday, April 16, 2:00 p.m. – 4:00 p.m.
Wyndham Hotel lobby

Meet field trip leader Adam Tompkins in the lobby at 2 p.m. No Charge. To sign up contact Adam.Tompkins@asu.edu

The passage of Arizona’s controversial immigration law SB 1070 catalyzed an artistic response from frustrated community members. Murals have emerged across downtown since the passage of the bill into law, to such an extent that the *Phoenix New Times* characterized Phoenix as “Mural City.” Many of the murals have a political subtext that emphasizes the integral part of Latino People and culture in Arizona. This tour will visit several of these beautiful examples of public art, including those that are part of the Calle 16 project. Calle 16 is an exercise in community-building that aims to nurture a local community-supported cultural district in a predominantly Hispanic section of town. It is intended to be a point of pride for residents of the neighborhood and the Phoenix metropolitan area alike. The tour will close with a visit to the Santa Rita Center (under consideration as a National Historic Landmark) just west of 16th street. The site became a center of opposition to a controversial House bill in 1972, when Cesar Chavez undertook a twenty-one day fast at the location to protest the passage of the law. This final stop will connect Chicano activism of the past with the present activism of the Latino community along the 16th Street corridor.

Post-conference field trips:

Grand Canyon field trip, April 17-19

Join us for ASEH’s first post-conference overnight field trip to an extraordinary natural wonder—Grand Canyon National Park. This field trip features a scenic drive from the Sonoran desert in Phoenix to the cool conifer forests of the Colorado Plateau. Expert guides will discuss the natural and human history of the Grand Canyon region with stops at:

- the Navajo Reservation
- an ancient Puebloan archaeological site at Tusayan Ruin
- the historic Desert Watchtower on the South Rim of the Canyon
- geology exhibits at the Yavapai Observation Station
- the new Trail of Time geoscience education installation on the rim trail
- and the Grand Canyon Village historic district

Following dinner Sunday evening will be a roundtable on “North America’s National Parks: Communication and Collaboration,” with speakers from Canada, Mexico, and the US focusing on historical and contemporary relationships across the national borders. Speakers include Ernesto Enkerlin (School of Engineering and Information Technology, Monterrey, and President of the National Commission on Natural Protected Areas of Mexico), Sergio Guevara Sada (Institute of Ecology, and President of the Network of Committees and Biosphere Reserves of Iberoamericana), Alan MacEachern (University of Western Ontario, and Director of NiCHE: Network in Canadian History & Environment), Claire Campbell (Dalhousie University), Robert Sutton (Chief Historian, US National Park Service), and Terence Young (California State Polytechnic University). Chief of Interpretation for Grand Canyon National Park, Judy Hellmich-Bryan, will give a welcoming address.

This field trip is available in one-night or two-night options. For both options, we will depart the conference hotel in vans at 7:30 a.m. Sunday morning April 17. *Meet in the hotel lobby to load your luggage at 7:15 a.m.* and pick up your trip packet and meals. A sack breakfast and lunch will be provided for everyone. Lodging is at the NPS’s Horace Albright Training Center: <http://www.nps.gov/training/hoal/>. For those choosing the single night option, the van(s) will leave the Grand Canyon at 7:30 a.m., Monday, April 18 and drop people off at the Phoenix Airport around noon. We do not advise scheduling return flights any earlier than 2:00 p.m.. For those choosing the two-night option, we will offer several guided and self-guided hiking and sightseeing options Monday, with the same return schedule as above (7:30 a.m.-noon) for Tuesday April 19.

The price for the one night option is \$150 and for the two-night option it is \$210. That includes transportation, lodging, guides, park entrance, and some meals. The trip will be led by Paul Hirt (ASU), Stephen Pyne (ASU), and Jeff Shepherd (UTEP), and is co-sponsored by the Network in Canadian History and Environment (NiCHE), the North American Center for Transborder Studies (NACTS), the Grand Canyon Association, and Grand Canyon National Park.

US-Mexico Border Field Trip Sunday, April 17

We hope that you will consider extending your stay in Arizona for an additional day at the end of the conference to take part in a rare opportunity to join border scholars and conservationists on a day trip to the U.S.-Mexico border. The itinerary will take you through spectacular Sonoran Desert scenery, including Organ Pipe Cactus National Monument and Cabeza Prieta National Wildlife Refuge. Along the way we will have presentations on topics related to conservation in the borderlands, immigration, border security, and human rights. An extraordinary group of scholars will accompany the tour and additional local experts will meet us at stops



along the way. Participants will be transported via bus from the hotel in Phoenix Sunday morning to the port-of-entry at Lukeville, AZ, where participants will see the Great Wall recently erected along the border. We will not cross the border into Mexico, so you do not need passports, although international visitors/residents should bring green cards and/or visas as we will pass through Border Patrol checkpoints. Transportation and lunch are included in the price of the trip. The bus will return to Phoenix by 6:00 p.m. The Wyndham Hotel has extended the conference room rate through Sunday night for those staying over for field trips. This trip is co-sponsored by the American Society for Environmental History and ASU’s North American Center for Transborder Studies.

Initial itinerary (some details subject to change):	
8 a.m.	Leave hotel (meet in lobby)
10 a.m.	Arrive Ajo, AZ Coffee and Snacks in Ajo Plaza Visit Cabeza Prieta National Wildlife Refuge Visitor Center
11 a.m.	Visit Ajo Region Border Patrol Headquarters
1 p.m.	Picnic at Organ Pipe (lunch boxes will be brought from hotel)
2 p.m.	Organ Pipe Visitors Center, and optional short hike (1 mile, easy hike)
3 p.m.	Visit Lukeville port-of-entry and view border fence
6 p.m.	Return to hotel

- Speakers include:
- Lisa Meierotto, School of Human Evolution and Social Change, Arizona State University, trip leader
 - Diana Hadley, ethnohistorian, University of Arizona, trip leader
 - Thomas Sheridan, The Southwest Center, University of Arizona
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- Christine Szuter, Scholarly Publishing Program, Arizona State University
- Erik Lee, North American Center for Transborder Studies, Arizona State University
- Margaret Regan, journalist and author of *The Death of Josseline: Immigration Stories from the Arizona Borderlands* (2010)
- John Rosinbum, History PhD student, Arizona State University, scholar of the Sanctuary Movement
- Sarah Hill, Department of Anthropology, Western Michigan University

Special workshop for high school students

“Environmental History and the National Parks”

Sponsored by National Park Service

Thursday, April 14, 9:00 – 12:00 noon
Wyndham Hotel, Pueblo Room

ASEH’s Education Committee will host Tempe High School and Metro Tech students for a Thursday morning workshop on environmental history and the national parks made possible by generous grant support from the National Park Service. Drawing on the mission of the Park Service to interpret the nation’s past, the workshop will bring environmental history into the discussion of America’s history and engage Phoenix area youth in building an understanding and appreciation of the environmental history of our national parks and the national park idea. The workshop will first consider broad questions to introduce students to the field and make connections to their lives, including: What are the most important environmental issues facing communities in Phoenix and across Arizona? How are students involved in their communities and how might their activities draw on environmental history? Why should Phoenix students care about environmental history in the national parks? Discussions will also address issues of race and exclusion in the national parks and doing environmental history at Park Service and other regional historic sites. The interactive program will foster discussion among scholars, teachers, and students, offer classroom connections, and allow students to explore environmental history in their communities. For more information, contact Education Committee Chair Aaron Shapiro at ashapiro@auburn.edu

Environmental films

Friday, April 15, 1:00 – 5:00 p.m.
We will show several current documentaries on topics of interest to environmental historians, for those not attending field trips on Friday afternoon. These can be viewed in session rooms in the hotel. No charge; **check the conference registration desk before Friday at noon for a list of films, room numbers, and a schedule.** Organized by April Summitt, Arizona State University.

Annual Hal Rothman fun(d) run

Saturday, April 16: 6:30 a.m. – 7:30 a.m.
Wyndham Hotel lobby

Join us for the 2nd annual **“Run for the Hal of It” Fun(d) Run**, a walk/run event to benefit the Hal Rothman Research Fellowship. Participants will meet in the lobby before departing for a 5K (3.1 mile) walk or run (your choice) and returning to the hotel. For more information and entry forms, visit ASEH’s conference website. Although there will be same-day registration, **we strongly encourage advance registration.** Entry fee is \$20 for members, \$10 for students. Event t-shirts and other items may be purchased in advance at: www.zazzle.com/halrothmanfund To register ahead of time – or if you have questions, please contact the organizer, Jamie Lewis, at james.lewis@duke.edu.

ASEH members’ meeting (business meeting)

Saturday, April 16, 5:30 p.m. – 6:00 p.m.
Wyndham Hotel, Salon 2 (meeting level)

All members welcome. President Harriet Ritvo will lead a discussion on the future of ASEH – this is your opportunity to contribute your ideas about our organization.

Registration and event fees

Online registration available at <http://www.regonline.com/Register/Checkin.aspx?EventID=898849>

Prices are listed below for planning purposes. Prices valid until March 23, 2011.

Registration

Member - **\$95**

Non-Member - **\$110**

Student - **\$45**

Single-day registration - **\$45**

Video conferencing request - **\$30** [for those connecting from a remote location]

Receptions

Opening reception, Wednesday, April 13 - **\$5.00**

Heritage Square before plenary session (dinner from local sustainable and organic vendors to be purchased separately), Thursday, April 14 - **\$5.00**

Graduate student reception, Thursday, April 14 - free for registrants

Breakfasts

Sustainability, Friday, April 15 - **\$28.00**

Forest History Society, Friday, April 15 - **\$28.00**

Envirotech, Saturday, April 16 - **\$28.00**

Climate history, Saturday, April 16 - **\$28.00**

Banquets

President’s talk “Wild Things,” and lunch banquet, Thursday, April 14 - **\$35.00**

Awards ceremony, buffet dinner and local music, Saturday, April 16 - **\$40.00**

Workshops

“History and Sustainability,” Wednesday, April 13, 9:00 a.m. - 4:00 p.m., Location: GLOS, room 481, Arizona State University, Tempe - **\$5.00** (sponsored by ASEH and ASU’s Global Institute of Sustainability)

“Energy Transitions in Society,” Wednesday, April 13, 9:00 a.m. – 4:00 p.m., Location: Coor Bldg, room 5536, Arizona State University, Tempe – **no charge** (Sponsored by the ASU Consortium for Science, Policy, and Outcomes and ASU Lightworks)

“Environmental Justice and Beyond,” Friday, April 15, 8:30 a.m. – 12:00 p.m., Location: Conference hotel, Salon 6 - **no charge** (organized by ASEH’s Diversity Committee)

“Fire and Water: A Century of Cooperative Forestry,” Friday, April 15, 8:30 a.m. - 12:00 p.m., Location: Conference hotel, Maricopa Room – **no charge** (sponsored by USDA Forest Service)

Field Trips, Friday Afternoon

#1 - Frank Lloyd Wright’s Taliesin West (includes bus, lunch, admission), Friday, April 15, 12:00 p.m. - 5:00 p.m., Location: Phoenix area - **\$55.00**

#2 – Sears-Kay ruin site, Tonto National Forest (includes lunch and transportation), Friday, April 15, 12:00 p.m. - 5:00 p.m., Location: Tonto National Forest – **no charge** (sponsored by USDA Forest Service)

#3 - Birding at South Mountain Park (includes bus and lunch), Friday, April 15, 12:00 p.m. - 5:00 p.m., Location: Phoenix area - **\$40.00**

#4 - Horseback riding on Verde River (includes bus, lunch, and horse rental), Friday, April 15, 12:00 p.m. - 5:00 p.m., Location: Fort McDowell-Yavapai Nation - **\$85.00**

#5 - Kayaking along Salt River (includes bus, lunch, and boat rental), Friday, April 15, 12:00 p.m. - 5:00 p.m., Location: Saguaro Lake Ranch - **\$75.00**

#6 - Bicycling along the canalscape (includes transportation, lunch, and bike rental), Friday, April 15, 12:00 p.m. - 5:00 p.m., Location: Phoenix area - **\$35.00**

#7 - Walking tour of downtown historic areas (includes lunch and all fees), Friday, April 15, 12:00 p.m. - 5:00 p.m., Location: downtown - **\$25.00**

#8 - Water in a desert metropolis (includes public transportation ticket and lunch sponsored by ASU’s Decision Center for a Desert City), Friday, April 15, 12:00 p.m. - 5:00 p.m., Location: Phoenix area - **\$5.00**

Field Trips, Post Conference

US-Mexico Border, Sunday, April 17, 8:00 a.m. - 7:00 p.m. - **\$60.00**

Grand Canyon National Park - 1 night, Sunday, April 17, 8:00 a.m. - Monday, April 18, 12:00 p.m. - **\$150.00**

Grand Canyon National Park- 2 nights, Sunday, April 17, 8:00 a.m. - Tuesday, April 19, 12:00 p.m. - **\$210.00**

Donation for Diversity

To help fund special speakers and sessions devoted to immigration, borderlands, and the environment at the Phoenix conference - **\$15.00**

Conference at a Glance

April 12-17, 2011

Conference at a Glance

April 12-17, 2011

Tuesday, April 12

Pre-conference birding field trip, 2:00 p.m. – 5:00 p.m.

Wednesday, April 13

Pre-conference birding field trip, 5:00 a.m. – 6:00 p.m.

Registration, Ballroom foyer, 8:00 a.m. – 6:00 p.m.

Sustainability workshop at ASU, 9:00 a.m. – 4:00 p.m.

Energy workshop at ASU, 9:00 a.m. – 4:00 p.m.

Opening reception, Wyndham Hotel poolside terrace, 6:00 p.m. – 8:00 p.m.

Thursday, April 14

Welcome and Sustainability Address by ASU President Michael Crow, Pueblo Room, 8:00-8:45 a.m.

Registration, Ballroom foyer, 9:00 a.m. – 5:00 p.m.

Exhibits, Grand Ballroom, 9:00 a.m. – 5:00 p.m.

Concurrent sessions, 9:00 a.m. – 10:30 p.m.

Special workshop for high school students, Pueblo Room, 9:00 a.m. – 12:00 noon

Morning break, Grand Ballroom, 10:30 a.m. – 11:00 a.m.

Concurrent sessions, 11:00 a.m. – 12:30 p.m.

President’s lunch banquet: Harriet Ritvo, “Wild Things,” Goldwater Room, 12:30 p.m. – 1:45 p.m.

Concurrent sessions, 2:00 p.m. – 3:30 p.m.

Afternoon break, Grand Ballroom, 3:30 p.m. – 4:00 p.m.

Concurrent sessions, 4:00 p.m. – 5:30 p.m.

No-host dinner in Heritage Square, 5:45 p.m. – 7:00 p.m.

Plenary session: William Cronon, “The Riddle of Sustainability: A Surprisingly Short History of the Future,” Arizona Science Center, Heritage Square 7:15 p.m. – 8:45 p.m.

Graduate Student reception, Goldwater Room, 9:00 p.m. – 10:00 p.m.

Friday, April 15

Breakfast: Sustainability, Pima room, 7:15 a.m. – 8:15 a.m.

Breakfast: Forest History Society, Havasupai room, 7:15 a.m. – 8:15 a.m.

Registration, Ballroom foyer, 8:00 a.m. – 12:00 noon (break for field trips)

Exhibits, Grand Ballroom, 8:00 a.m. – 12:00 noon (break for field trips)

Concurrent sessions, 8:30 a.m. – 10:00 a.m.

Environmental Justice workshop, 8:30 a.m. – 12:00 noon

Forest Service workshop, 8:30 a.m. – 12:00 noon

Morning break, Grand Ballroom, 10:00 a.m. – 10:30 a.m.

Concurrent sessions, 10:30 a.m. – 12:00 noon

Field trips, 12:15 p.m. – 5:00 p.m.

Films at hotel, 1:00 p.m. – 5:00 p.m.

Plenary session: “Immigration, borderlands, and the environment,” Orpheum Theater, 6:00 p.m. – 7:15 p.m.

Saturday, April 16

Hal Rothman fun(d) run, 6:30 a.m.

Breakfast: Envirotech, Pima room, 7:15 a.m. – 8:15 a.m.

Breakfast: Climate History, Havasupai room, 7:15 a.m. – 8:15 a.m.

Registration, Ballroom foyer, 8:00 a.m. – 2:00 p.m.

Exhibits, Grand Ballroom, 8:00 a.m. – 2:00 p.m.

Concurrent sessions, 8:30 a.m. – 10:00 a.m.

Morning break, Grand Ballroom, 10:00 a.m. – 10:30 a.m. (poster presentations in Grand Ballroom)

Concurrent sessions, 10:30 a.m. – 12:00 noon

Lunch break, 12:00 noon – 1:30 p.m.

Concurrent sessions, 1:30 p.m. – 3:00 p.m.

Calle 16 Tour, Hotel lobby, 2:00 p.m. - 4:00 p.m.

Afternoon break, 3:00 p.m. – 3:30 p.m

Concurrent sessions, 3:30 p.m. – 5:00 p.m.

ASEH members meeting, Salon 2, 5:30 p.m. – 6:00 p.m.

No-host bar, Grand Ballroom, 6:30 p.m.

ASEH awards ceremony, Grand Ballroom, 7:00 p.m. – 7:45 p.m.

Buffet dinner and live music, Wyndham Hotel poolside terrace, 7:45 p.m. – 10 p.m.

Sunday, April 17

Post-conference field trips:

Grand Canyon field trip, meet in hotel lobby at 7:15 a.m.

Borderlands field trip, meet in hotel lobby at 8:00 a.m.

Note: This is a list of conference sessions only; see preceding pages for a list of all special events.

Crude Ecology: Living with Petroleum

Panel 1-A: Salon 1 (meeting level)

Chair: Tyler Priest, University of Houston
Comments: Brian Black, Penn State - Altoona
Panelists: Twyla Dell, Energy Transitions, LLC
Gasoline: A Love Story
Stefania Barca, Centro de Estudos Sociais Universidade de Coimbra
Colégio S. Jerónimo
Petrochemical Industry in Italy
Teresa Sabol Spezio, University of California – Davis
“This word ‘damage’ is also difficult”: Scientific Controversy and the Santa Barbara Oil Spill

Dry Lands, River Basins, and (Inter)National Expansion in the Southwest Borderlands

Panel 1-B: Salon 2 (meeting level)

Comments: John Herron, University of Missouri – Kansas City
Panelists: Eliza Martin, Georgia State University
Dividing Transnational Rivers in the California/Mexico Borderlands
Eric Steiger, University of California – Irvine
Forging an International Ideology of Irrigation: Engineering Expertise in Arid California, 1850-1900
Erik Altenbernd, University of California – Irvine
Mapping the Desert Sublime: The Powell Survey and the Geologic Aesthetics of the Colorado Plateau

Natural Knowledge Loss in the US Southwest and the Middle East

Panel 1-C: Salon 3 (meeting level)

Chair and Comments: Frank Uekötter, Rachel Carson Center, Muenchen
Panelists: Mark Finlay, Armstrong Atlantic State University
Knowledge Loss and Abandoned Dreams: The Failures of Guayule As a Natural Rubber Crop in the American Southwest
Diana K. Davis, University of California – Davis
Political Economy, Power and Erasure of Indigenous Pastoral Knowledge in the Maghreb
Victoria Penziner, Florida State University
Heritage, Progress and the Destruction of Natural Knowledge in the United Arab Emirates in the 20th Century

Earth, Stone, Soil: The Earth Sciences and U.S. Environmental History

Roundtable 1-D: Salon 4 (meeting level)

Chair: Conevery Bolton Valencius, Harvard University
Participants: David I. Spanagel, Worcester Polytechnic Institute
Making Earth’s History Visual: Maps, Minerals, and Soil in the Early Republic
Conevery Bolton Valencius, Harvard University
Earthquake Cracks in the Mississippi Valley
Jeremy Vetter, University of Arizona
What Is (and Where Is) a Soil Type? Science and Environmental Perception on the U.S. Great Plains in the Early Twentieth Century
Jon Christensen, Stanford University
Thinking with Serpentine
Emily Pawley, Museum of American History
Adaptation, Divinity, and the Agricultural Landscape in New York, 1825-1850

The Role of Climate Change in World History

Panel 1-E: Salon 5 (meeting level)

Chair and Comments: Philip Garone, California State University – Stanislaus
Panelists: Sam White, Oberlin College
First Colonial Winters: Comparing Experiences of Little Ice Age Weather, 1607-10
Gregory Cushman, University of Kansas – Lawrence
La Niña, Ecological Imperialism, and the Colonization of Easter Island, 1862-1888
James Fleming, Colby College
Body, Place, Planet in the Militarized Atmospheric Al-khimia of the Mid-20th Century
Kimberley Kinder, University of California—Berkeley
A Warmer, Wetter World: Adapting to Climate Change in the Netherlands

Effluent, Pollutants, and Dams, Oh My! in the 20th Century Northeast US

Panel 1-F: Salon 6 (meeting level)

Chair: Kristine Harper, Florida State University
Panelists: Jared Taber, University of Kansas
The Dynamic Politics of Flood Control: How Changing Attitudes About Flood Control Shaped the Watersheds of the Northeast During the Twentieth Century
Brian Pompeii, Arizona State University
A Historical and Regional Assessment of Dam influenced Ecosystem Change
Jeff Brideau, University of Maryland – College Park
Inventing Wastewater: The Social Construction of Pollution and Effluent Regulation
Rebecca Hale, Arizona State University
Water Quality Trends in the US Northeast, 1920-2000: Pollution, Perceptions, Policy, and Practice

Rivers as Historical Forces

Panel 1-G: Salon 7 (meeting level)

Comments: Mart Stewart, Western Washington University
Panelists: Hayden R. Smith, University of Georgia
Down and Dirty: Geological Relationships with South Carolina Lowcountry Inland Rice Plantations
Klas Ronnbeck, University of Gothenburg, Sweden
Economic Growth and Clean Water in the River Gota: Collective Action and the Environmental Kuznets Curve, 1895-2000.
April Summitt, Arizona State University
Contested Waters: The Colorado River and Water Markets in the American Southwest

Mass Migration and Environmental History: Global Perspectives

Roundtable 1-H: Salon 8 (meeting level)

Chair: Richard Tucker, University of Michigan
Participants: Marco Armiero, CNR, Italy and Institute of Environmental Sciences and Technologies, UAB, Barcelona
Dirk Hoerder, Arizona State University and University of Bremen
Richard Eaton, University of Arizona

Taking the Earth’s Pulse: Scientific Networks and the Challenges of Collecting Environmental Data

Panel 1-I: Gila (conference level)

Chair: Gina Rumore, University of Minnesota
Panelists: Gina Rumore, University of Minnesota
Capturing Time and Space: The National Science Foundation’s Long-Term Ecological Research Network
James Collins, Arizona State University
Opening New Horizons for Large-scale Biology: The National Ecological Observatory Network or NEON
Etienne Benson, Max Planck Institute for the History of Science
Fragmented Infrastructures of Global Environmental Observation: The Argos Data Collection and Location System
Erik Conway, NASA’s Jet Propulsion Laboratory
How Do We Know What We’re Measuring? Hybrid Observing Networks in Physical Oceanography

Infusing Sustainability into the Environmental History Classroom – 1

Workshop 1-J: Maricopa (conference level)

Facilitators: Jim Feldman, University of Wisconsin – Oshkosh
Will Barnett, North Central College

Science, Knowledge and Nature

Panel 2-A: Salon 1 (meeting level)

Chair: Michael Egan, McMaster University
Panelists: Abigail Schade, Columbia University
Reading Medieval Water Knowledge Forwards? Reading into al-Karaji’s 11th-Century Instruction Manual for Extraction of Hidden Waters
Michael Rawson, Brooklyn College, City University of New York
Nature and Utopia in the Scientific Revolution

The Impact of Water Manipulation on the Cultural Environment of the Salt River Valley, Arizona

Panel 2-B: Salon 2 (meeting level)

Chair: DC Jackson, Lafayette College
Panelists: Todd Bostwick, Arizona State University
Floods, Salt, and Social Conflicts: Managing Water during Ancient Times in the Salt River Valley
Shelly Dudley, Salt River Project
Entrepreneurial Aspirations: The Reclamation and Development of the Salt River Valley
Vincent Murray, Arizona Historical Research
To Be Dammed for their Own Good: Flood Control in the Salt River Valley

The Promise and Perils of Environmental Planning and Development

Panel 2-C: Salon 3 (meeting level)

Chair: Jeff Hall, SUNY Stony Brook
Panelists: Jonathan Anzalone, SUNY Stony Brook
Environmental Protection or Tyranny?: The Aborted Ton-Da-Lay Development and the Race for Open Space in the Adirondacks during the 1960s and 70s
Elsa Devienne, École des Hautes Études en Sciences Sociales
Southern California Yacht Harbors and the Making of Coastal Engineering Knowledge (1930s-1950s)
Ross Coen, Alaska Center for Energy and Power
“We Smashed the Arctic”: How the Environment Drives (and Is Driven By) Alaska History
Ed O’Rourke, California State University – East Bay
The Contribution of Environmental Issues to the 1982 Defeat of California’s Peripheral Canal

Resources, Sustainability and Resilience in Australia: Meeting the Challenges of a Difficult Environment

Panel 2-D: Salon 4 (meeting level)

Chair: Gregory Cushman, University of Kansas
Panelists: Tamara Sysak, University of Melbourne, Australia
Exploring Drought Through a Resilience Lens: A Case Study Approach to Drought in North Victoria
Claire Brennan, James Cook University, Australia
The Northern Crocodile Bubble: Tropical Australia as a Twentieth-Century Resource Frontier
Claire Fenby, Australia
Drought in South-Eastern Australia, 1835-1845
Don Garden, University of Melbourne, Australia
Natural or Anthropogenic?: the Effects of Drought in Colonial Eastern Australia

The Role of Climate Change in Environmental Restoration

Panel 2-E: Salon 5 (meeting level)

Chair: James Fleming, Colby College
Comments: Paul Sabin, Yale University
Panelists: Jeff Crane, Sam Houston State University
Global Warming and Pacific Northwest Salmon: Adaptive Strategies and Narratives
Philip Garone, California State University – Stanislaus
Global Climate Change and the Future of Wetland Protection in California’s Great Central Valley
Nancy Langston, University of Wisconsin – Madison
Climate Change and History in the Lake Superior Basin

Transnational Perspectives On Coal-Based Societal Metabolisms: Germany, the United States, and Canada

Panel 2-F: Salon 6 (meeting level)

Chair: Robert Johnson, New College of Florida
Panelists: Tom Arnold, University of Kansas
Carbon-Based Life Forms: The Impact of WWII on Munich’s Coal Supply and the Lives of its Citizens
Dan Zizzamia, Montana State University
Mining a Shallow Sea of Deep Time: Fossils and Fossil Fuels in the Western Interior Seaway
Andrew Watson, York University
Switching Fuels: Socioecological Consequences of the Steamboating Transition from Fuelwood to Coal in Muskoka, Ontario, 1890-1920
Casey Cater, Georgia State University
Living Better Electrically: Modernity, Progress and the Promotion of All-Electric Living in the Post-WWII American South

Pollution and Its Management

Panel 2-G: Salon 7 (meeting level)

Chair: Kent LaCombe, Kansas State University
Panelists: Michele Dagenais, University of Montreal
In Search of a Mythical Past: A Discussion of Recent Projects Aimed at Reconnecting the Montreal Population with the St. Lawrence River
James Hillegas, Independent Scholar
Not Seeing the River for the Trees: How Place Fostered and Constrained Human Actions along Oregon’s Willamette River
Thomas Belton, New Jersey Department of Environmental Protection
Arsenic and Old Lakes: the 1980s in the New Jersey Pinelands

Mass Migration and Environmental History: Regional Perspectives

Roundtable 2-H: Salon 8 (meeting level)

Chair: Richard Tucker, University of Michigan
Participants: Linda Ivey, California State University – East Bay
Christopher Boyer, University of Illinois – Chicago
Gregory Maddox, Texas Southern University
Richard Allen, Framingham State University

Putting Social and Ecological Literacies into Practice: Environmental Studies, the Humanities, Education, and Sustainability in a Dangerous World

Roundtable 2–I: Gila (conference level)

Chair: Jared Aldern, Prescott College
Participants: Noël Cox Caniglia, Prescott College
Jeanine Canty, Naropa University
Rafe Sagarin, University of Arizona
Priscilla Stuckey, Prescott College

Infusing Sustainability into the Environmental History Classroom - 2

Workshop 2-J: Maricopa (conference level)

Facilitators: Jim Feldman, University of Wisconsin – Oshkosh
Will Barnett, North Central College

Mountains and Rivers without End: The Opportunities and Challenges of Teaching Environmental History Beyond the Classroom

Roundtable 3-A: Salon 1 (conference level)

Chair: Sara Dant, Weber State University
Participants: Greg Gordon, Prescott College
David Brooks, University of Montana
Brian Donahue, Brandeis University
Lynne Heasley, Western Michigan State College

Understanding ‘Global Change’: Who is the Expert?

Panel 3-B: Salon 2 (conference level)

Chair: Michael Egan, McMaster University
Panelists: Paul Warde, University of East Anglia / Cambridge University
Making Yesterday’s Futures: Social Technologies of Environmental Prediction
Sverker Sörlin, Stockholm Resilience Centre / KTH
Conceptualizing Environment: Predictions and the Production of Environment, 1920-1960
Libby Robin, Australian National University / National Museum of Australia
Realms of Expertise and the Emergence of ‘Relevant Knowledge’ in Environmental Predictions and Global Change

Multinational Corporations, State Institutions, and Water Privatization in the Era of Neoliberal Expansion

Panel 3-C: Salon 3 (conference level)

Chair: Ted Schrecker, University of Ottawa, Canada
Panelists: Bartow Elmore, University of Virginia
Coca-Cola, Neoliberal State Agencies, and Water Resource Management in the Developing World, 1970-2010
Edward Melillo, Amherst College
Awash in Modernity: Hydraulic Displays of Nation and Race in Chile and the Americas
Samuel Duncan, Case Western Reserve University
Bottled Water Taxonomy: Defining Nature and Neoliberalism
Ted Schrecker, University of Ottawa, Canada
“Green Neoliberalism”: Water and the Right to Health

Architectural Histories and Environmental Histories

Panel 3-D: Salon 4 (conference level)

Chair and Comments: Vandana Baweja, University of Florida
Panelists: Christopher W. Wells, Macalester College
Building with Nature: “Nature” and Domestic Architecture in the American Arts and Crafts Movement
Daniel A. Barber, Harvard University
The Invention of Thermal Comfort: the Thermoheliodon of Victor and Aladar Olgyay
Vandana Baweja, University of Florida
Tropical Architecture and Green Architecture

Environmental Stress in the Arizona-Mexico Borderlands

Panel 3-E: Salon 5 (conference level)

Chair: Jaime Aguila, Arizona State University
Panelists: Neil Prendergast, University of Arizona
Native and Home: Environmental, Cultural, and Immigration Politics
Lisa Meierotto, Arizona State University
The Environmental History of Cabeza Prieta National Wildlife Refuge: The Co-evolution of Militarization and Conservation
Scott Warren, Arizona State University
Landscapes of a Border Highway: Exploring Perceptions of Nature in the U.S.-Mexico Borderlands along Arizona State Route 85 and Mexico Federal Route 8
Stephanie Capaldo, University of Arizona
Smelter Pollution in the ‘Grey Triangle’: Cultural Constructions of Environmental Justice in the U.S.-Mexico Borderlands

Africa: Traditional Values and Modern Pressures

Panel 3-F: Salon 6 (conference level)

Chair: Sandra Swart, University of Stellenbosch
Panelists: Mickie Hudson-Koster, Lonestar College
From the Mtaa Plant to the Musical Bow: The Continuities of the Ritual Women in Modern Kenya
Karen Brown, Oxford University
“Without Farming the Tswana Have No Worth”: Cattle and Identity in the North West Province, South Africa
Emily Brownell, University of Texas
Dar es Salaam and Ujamaa: Urban Growth as a Response to Villagization?

The Eco-tour, the Toxic Tour, and Indigenous Tourism: Ten Years of History and Reflection

Roundtable 3-J: Gila (meeting level)

Chair: Robert Melchior Figueroa, University of North Texas
Participants: Kyle Powys Whyte, Michigan State University
Teresa Leal, Curator, Pimeria Alta Historical Society / Comadres, Nogales, AZ/Sonora
Joni Adamson, Arizona State University
Giovanna Di Chiro, Nuestras Raíces, Inc. / Five College Women’s Studies Research Center

Biography’s Role in Environmental History I: Queries and Case Studies

Panel 3-G: Salon 7 (conference level)

Chair: Kathryn Davis, San Jose State University
Panelists: Barry Muchnick, Yale University
Bob Marshall’s Memory: Using Biography to Reimagine Environmental History
Susan Rimby, Shippensburg University
More for Forests: Mira Lloyd Dock and Progressive Era Conservation
Teresa Tomkins-Walsh, University of Houston
Saving Buffalo Bayou: Terry Tarlton Hershey’s Life of Environmental Action

Petroleum and the Gulf of Mexico: Perspectives from Environmental History

Roundtable 3-H: Salon 8 (conference level)

Chair: Brian Black, Penn State University – Altoona
Participants: Tyler Priest, University of Houston
Myrna Santiago, St. Mary’s College
Paul Sabin, Yale University

Cities, Farms and Land-Use Regulation in North America

Panel 3-I: Maricopa (meeting level)

Chair: Donald J. Pisani, University of Oklahoma
Panelists: William Philpott, University of Denver
Planning for Tourists More Than Trees: The Frustration of Colorado Land-Use Reform
Kimberly Little, University of Central Arkansas
Two Rivers, One Story: Urban Use of Rural Riparian Landscapes in the Late Twentieth Century
Kathleen Brosnan, University of Houston
Niagara and Napa: Preserving Wine Grapes through Land-Use Regulation
Sara Gregg, University of Kansas
A New Generation of Federal Conservation Planning: The 1985 “Food Security Act”

Resource Extraction in the North Atlantic and Soviet Union

Panel 4-A: Salon 1 (conference level)

Chair: Douglas Weiner, University of Arizona
Panelists: Christopher Ward, Clayton State University
“The Small Peoples of the North Must Adapt”: Indigenous Siberians and the Construction of the Baikal-Amur Mainline Railway
Stephen Brain, Mississippi State University
Red Flag over the White Sea: The Collectivization of Marine Wildlife in the Soviet North
Karen Oslund, Towson University
North Atlantic Whaling: A Case Study for Global Whaling Politics?

Sustainability and its Discontents

Panel 4-B: Salon 2 (conference level)

Chair: Marcus Hall, University of Zurich
Panelists: Richard Norgaard, University of California – Berkeley
Sustainable Development or Ecological Civilization?
Richard Wilk, University of Indiana
Going beyond the Linear Story – Change in Many Directions
Thomas Princen, University of Michigan
Sustainability: From Concept to Context

The Connected Historiographies of Conservation, Sustainability, Environmental Policy and Indigenous Sovereignty

Panel 4-C: Salon 3 (conference level)

Chair: Garrit Voggesser, National Wildlife Federation
Comments: Andrew Fisher, College of William and Mary
Panelists: Nathan Roberts, University of Washington
Historicizing “Sustainability” in Imperial and National Contexts
Monika Bilka, Arizona State University
Sustaining Indigenous Sovereignty through Environmental Policy
Lisa Blee, Wake Forest University
Buffer Zones and Homelands: Nisqually Sovereignty and Resource Management at Joint Base Lewis-McChord
Mike Dockry, University of Wisconsin – Madison / USDA Forest Service
Indigenous Perspectives on Sustainability: The 1990 Indigenous Peoples’ March for Territory and Dignity and the Origins of the Bolivian National Forestry Law

Molecularizing Nature: The Politics of Molecular Biology

Panel 4-D: Salon 4 (conference level)

Chair and Comments: Michael Egan, McMaster University
Panelists: Kevin C. Armitage, Miami University
Sewage Ice and Its Menacing Bacteria: The Nature of Germs in Progressive Era United States
Jenny Leigh Smith, Georgia Institute of Technology
Seeds, Symbols and States: The Effect of the Genome Revolution on Global Seed Banks
Håkon B. Stokland, Norwegian University of Science and Technology
The Science and Politics of Unnatural Wolves and Norwegian Genes
Jody Roberts, Chemical Heritage Foundation
Uniting the Local and Global in Governing a Molecular Environment

The Ends of Extinction: Perspectives and Long-Term Analysis from Conservation Biology, History and Literature

Joint roundtable co-sponsored by the Society for Conservation Biology (SCB), the Association for the Study of Literature & Environment (ASLE), and ASEH

Roundtable 4-H: Salon 8 (conference level)

Co-Moderators: Catherine Christen, Smithsonian Conservation Biology Institute and
Mark Madison, National Conservation Training Center
Panelists: Paul Beier, Northern Arizona University
David E. Brown, Arizona State University
Annie Ingram, Davidson College
Curt Meine, Center for Humans and Nature
Gary Paul Nabhan, University of Arizona
John Soluri, Carnegie Mellon University
Julianne Lutz Warren, New York University

Common Property: Management and Conflict

Panel 4-I: Maricopa (meeting level)

Chair: Michael Schoon, Arizona State University
Panelists: Colin Coates, York University
Defending the Commons in Early French Canada, 1660-1860
Alasdair Ross, University of Stirling
Sustaining Historical Grazing Regimes in Scotland: Common Good versus Common Greed
Greg Gordon, Prescott College
The Woodhawk War on the Upper Missouri, 1865-1868

Sustainability of What, How and for Whom? Progress, Development, and Justice in Greater Phoenix

Roundtable 4-E: Salon 5 (conference level)

Chair: Merlyna Lim, Arizona State University
Participants: Michael Bivona, Arizona State University
Auriane Koster, Arizona State University
Erica Spiro, Arizona State University
Lisa Jaeger, Arizona State University
Alicia Woodbury, Arizona State University
Robert Poe, Arizona State University

Energy as System, Symbol, and Spectacle

Panel 4-F: Salon 6 (conference level)

Chair and Comments: Martin Melosi, University of Houston
Panelists: Christopher Jones, Harvard University
Energy Transport, Boosters, and the Logic of Intensification, 1820-1860

Robert Johnson, New College of Florida
Coal, Trauma, and the Origins of the Modern American Self, 1885-1951
Nina Möllers, Deutsches Museum
Between Wastefulness and Sustainability: German Household Exhibitions and their Representation of Private Energy Consumption, 1920 to 1980

Biography’s Role in Environmental History II: Queries and Case Studies

Panel 4-G: Salon 7 (conference level)

Chair: Barry Muchnick, Yale University
Panelists: Kathryn Davis, San Jose State University
At Home in the Wild: The Botanical Adventures of Ynes Mexia
Monique Bourque, Willamette University
“Spare and encourage the birds”: Science, Nature Study, and Sympathy for Nature in the Life and Work of Mary Treat
Daniel Kerr, Excellence in West Texas History Fellow
Biography as Plains History — Pastores in the Cattle Kingdom

Oral and Environmental History

Panel 5-A: Salon 1 (conference level)

Chair: David Todd, Conservation History Association of Texas
Panelists: Mark Madison, U.S. Fish and Wildlife Service
Top Ten Things to Know Before Starting a National Oral History Project
Charles Closmann, University of North Florida
Voices from the Stream: Using Oral History to Study Florida’s St. Johns River
Paul Sadin, Historical Research Associates, Inc.
Oral History, the U.S. Army Corps of Engineers, and America’s Nuclear Arsenal
David Todd, Conservation History Association of Texas
History and Stories of Texas Conservation

Four Stories of the Environmental Histories of Sonoran Desert Cities

Panel 5-B: Salon 2 (conference level)

Chair: Ken McCown, University of Tennessee
Panelists: Gabriel Montemayor, Arizona State University
Ambos Nogales
Kim Steele, Arizona State University
50 Years in Maryvale: the Decline and Rebirth of an At-Risk Community
Ken McCown, University of Tennessee
Scottsdale Sustainability Atlas
Katherine Crewe, Arizona State University
Urban Ecologies in U.S. Southwestern States

The European Experience with Sustainable Practices in the Later Middle Ages

Panel 5-C: Salon 3 (conference level)

Chair: Dolly Jørgensen, Umea University
Panelists: Richard Hoffmann, York University
Reassessing ‘Ecological Crisis in Fourteenth Century Europe’
Tim Sistrunk, California State University – Chico
Defining Sustainable Practice in Late Medieval Law
Richard Keyser, Western Kentucky University
The Keys to Sustainability in Premodern European Woodlands

The Animal in the Middle East

Panel 5-D: Salon 4 (conference level)

Chair and Comments: Harriet Ritvo, Massachusetts Institute of Technology
Panelists: Arash Khazeni, Pomona College
Through an Ocean of Sand: Pastoralism and the Equestrian Culture of the Eurasian Steppe
Susan Kahn, Harvard University
Middle Eastern Hunting Hounds: A Cultural History of a Colonized Breed
Alan Mikhail, Yale University
Before the Zoo: Humans and Animals in Ottoman Egypt

New Approaches to the History of War and the Environment: A Discussion of J. R. McNeill’s Mosquito Empires: Ecology and War in the Greater Caribbean, 1620-1914

Roundtable 5-E: Salon 5 (conference level)

Chair: Micah Muscolino, Georgetown University
Participants: Lisa Brady, Boise State University
David Bello, Washington and Lee University
Paul Sutter, University of Colorado
James L.A. Webb Jr., Colby College

Teaching Global Environmental History: Perspectives from Around the World

Roundtable 5-F: Salon 8 (conference level)

Chair: Christof Mauch, Ludwig-Maximilian University
Participants: Marcus Hall, University of Zürich
Libby Robin, Australian National University / National Museum of Australia
Ranjan Chakrabarti, Jadavpur University
David Soll, Lafayette College

Security in a Lengthening Food Chain

Panel 5-G: Gila (meeting level)

Chair: Lisa Cox, University of Guelph
Panelists: Lisa Cox, University of Guelph
Bovine Tuberculosis and the Sanitary Ideal
Matthew Roth, Rutgers University
The Middleman: Dwayne Andreas, ADM and the Hidden Empire of Soy
Stephanie Fuglaar, University of Houston
California’s Cannery Inspection Board and Botulism
Gregorio Santiago, University of Central Arkansas
Dethroning King Corn

Environmental Justice in Arizona and Beyond

Workshop 5-H: Salon 6 (conference level)

This half-day public workshop (8:30-12:00 noon), organized by ASEH’s diversity committee, will cross cultural and socio-economic boundaries, combining historians of the ASEH with indigenous and environmental justice scholars, grassroots groups, and elders of the Navajo Nation. The workshop will provide interaction between the educators who teach, study, and write environmental history with those living with the effects of resource extraction and uranium contamination on the Navajo Nation.

The workshop will begin with the award winning documentary “*The Return of Navajo Boy*,” introduced by the film producer and director, Jeff Spitz, and two Navajo Nation elders who are featured in the film: Elsie Mae Begay and Perry Charley. The film resulted in reuniting a family, compensation for a former uranium miner, and an investigation of contamination in homes built with radioactive debris from uranium mines. The Navajo (Diné, “the People”) have been disproportionately exposed to pollution from resource extraction while maintaining a subsistence lifestyle. The Diné cultural and spiritual importance of the ecology intensifies the impacts of pollution upon emotional, spiritual, cultural, and physical heath.

After the 75-minute film, the three will be joined by additional presenters to share their perspectives and discuss with the audience the challenges to the sustainability and health of the Navajo Nation. Lori Goodman belongs to Diné Citizens Against Ruining our Environment (Diné CARE) an all-Navajo environmental organization helped pass the Radiation Exposure Compensation Act (RECA, 1990) and is currently resisting the development of the Desert Rock Coal

Plant. Samantha Chisholm Hatfield is one of the first Oregon State University PhD students to complete an Environmental Science dissertation on the TEK of the Siletz Tribe in 2009 and she will share her perspective as a TEK educator. Sylvia Hood Washington, an expert in environmental justice issues, will add a broader context to the discussion. Laurel MacDowell brings her expertise on uranium issues in Canada.

Moderator: Laurel MacDowell, University of Toronto
Participants: Elsie Mae Cly Begay (Diné)
Perry Charley (Diné), Diné College’s Uranium Education Project and Environmental Institute, NAS Committee on Improving Practices for Regulating and Managing Low-Activity Radioactive Wastes
Jeff Spitz, Executive Director, Groundswell Educational Films
Samantha Chisholm Hatfield, PhD (Siletz-Cherokee), Oregon State Universiy
Lori Goodman (Diné), CARE
Sylvia Hood Washington, PhD, Editor-in-Chief, Environmental Justice

No sign up required

Fire and Water: A Century of Cooperative Forestry

Workshop 5-I: Maricopa (meeting level)

This half-day workshop (8:30-12:00 noon), sponsored by the USDA Forest Service, will include discussions with agency employees from the Regional Headquarters in Albuquerque and the National Headquarters in Washington, DC; a former attorney from the Office of General Counsel, Department of Agriculture; private land managers from the Malpais Borderlands Group; and a variety of scholars. It will be followed by a field trip to the Sears-Kay Ruin site on Friday afternoon, for a short walk and discussion of managing an urban forest. This event is free, but sign-up on the conference registration form is required.

Protestantism and Environmental History

Panel 6-A: Salon 1 (conference level)

Chair: Bron Taylor, University of Florida
Panelists: Susan Bratton, Baylor University
Megachurches and Green Space: From Renovated Urban Structures to Suburban Campuses
Neall Pogue, Texas A&M
The Lost Environmentalists: The Struggle Between Conservative Protestants and the Environment in the Early 1970
Mark Stoll, Texas Tech University
Nature and New England’s Religious Outsiders: Burroughs, Thoreau, Whitma

Sustaining Hal Rothman’s Legacy, Expanding its Reach

Roundtable 6-B: Salon 2 (conference level)

Chair: Char Miller, Pomona College
Participants: Martin Melosi, University of Houston
Phoebe S.K. Young, University of Colorado
William Lang, Portland State University
William Philpott, University of Denver
Marguerite Shaffer, Miami University

Preindustrial Warfare and Environments in the Atlantic World

Panel 6-C: Salon 3 (conference level)

Chair: Lisa Brady, Boise State University
Panelists: Philip Slavin, Yale University
Between Ecology and War: The Fourteenth-Century Crisis in the British Isle
Dagomar Degroot, York University
Dutch Naval Operations and Climatic Changes During the Maunder Minimu
Craig Miller, SUNY – Buffalo
Pigs, Property and Politics: Contrasting Subsistence Strategies in the Outbreak of King Philip’s War
David Hsiung, Juniata College
Making Gunpowder During the War of Independence: Saltpetre Production and How Americans Understood Their Environment

Indigenous Communities in North America: Confrontations with Euro-American Institutions

Panel 6-D: Salon 4 (conference level)

Chair and Comments: James Zeidler, Colorado State University
Monette Bebow-Reinhard, Oconto Archaic Copper Museum
Tribal Environmentalism in the Great Lakes: Attitude, Pollution and Civilizatio
James Lawson, University of Victoria
The Ottawa Valley Shiners’ Wars as Threshold Encounters: Bakhtin’s Chronotope in Analyzing Forest Conflicts and Shifting Identities in Colonial Canada
Mark Miller, Southern Utah University
The Death Valley Shoshones and the National Park Idea: Aboriginal Subsistence Practices and Sustainable Management in the National Park System
Tabitha Erdey, Washington State University
Mission Accomplished or Impossible? Sustaining the National Park Service’s Mandate and Negotiating Public Perception in the Postwar Era

Public History and Sustainability

Roundtable 6-E: Salon 5 (conference level)

Chair: Catherine Christen, Smithsonian Conservation Biology Institute
Participants: Leah Glaser, Central Connecticut State University
Jannelle Warren-Findley, Arizona State University
Carol Palmer, Palmer Research
John Akers, Sahuaro Ranch Park Historic Area

Energy Transitions: Sputtering Global Attempts at Alternatives

Panel 6-F: Salon 7 (conference level)

Chair: Martin (Mike) Pasqualetti, Arizona State University
Comments: Clark Miller, Arizona State University
Panelists: Timo Myllyntaus, University of Turku Finland
Energy, Voluntary Work and National Unity: Postwar Campaign for Cutting Fuelwood in Finland, 1945 – 1948
Sarah Hill, Western Michigan University
Why University Biodiesel Programs Have Had Such Short Lives
Mogens Rüdiger, Aalborg University, Denmark
Sustainability and Energy Mix in Denmark, 1973-2010

Oil, Soil and Toil: Using Environmental History to Inform Policy Debates

Roundtable 6-G: Salon 8 (conference level)

Chair: Jody Roberts, Chemical Heritage Foundation
Participants: Carolyn Merchant, University of California – Berkeley
Joe Pratt, University of Houston
Jody Roberts, Chemical Heritage Foundation
Karl Brooks, Environmental Protection Agency

Environmental Justice in Arizona and Beyond (begins at 8:30 a.m.)

Workshop 6-H: Salon 6 (conference level), cont. from session 5

This half-day public workshop (8:30-12:00 noon), organized by ASEH’s diversity committee, will cross cultural and socio-economic boundaries, combining historians of the ASEH with indigenous and environmental justice scholars, grassroots groups, and elders of the Navajo Nation. The workshop will provide interaction between the educators who teach, study, and write environmental history with those living with the effects of resource extraction and uranium contamination on the Navajo Nation.

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contamination in homes built with radioactive debris from uranium mines. The Navajo (Diné, “the People”) have been disproportionately exposed to pollution from resource extraction. The Diné cultural and spiritual importance of the ecology intensifies the impacts of pollution upon emotional, spiritual, cultural, and physical heath.

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Fire and Water: A Century of Cooperative Forestry (begins at 8:30 a.m.)

Workshop 6-I: Maricopa (meeting level), cont. from session 5

This half-day workshop (8:30-12:00 noon), sponsored by the USDA Forest Service, will include discussions with agency employees from the Regional Headquarters in Albuquerque and the National Headquarters in Washington, DC; a former attorney from the Office of General Counsel, Department of Agriculture; private land managers from the Malpais Borderlands Group; and a variety of scholars. It will be followed by a field trip to the Sears-Kay Ruin site on Friday afternoon, for a short walk and discussion of managing an urban forest. This event is free, but sign-up on the conference registration form is required.

Global Perspectives of Protected Areas:
Creation and Legacy

Panel 7-A: Salon 2 (conference level)

Chair: Adrian Howkins, Colorado State University
Panelists: Jose Drummond, Universidade de Brasília, Brazil
A Second Look at Brazilian Federal Conservation Units: A Historical Overview of their Creation and of their Current Status – 2010
Steve Rodriguez, University of California – Los Angeles
National Parks and Nationalism in British Colonial Southeast Asia, 1930-55
Amanda Lewis, Michigan State University
“A true picture of the old unspoilt Africa”: Global Perspectives on Displaced People of Kenyan and Appalachian National Park
James Pritchard, Iowa State University
Fryxell’s Vision, Woodring’s Hobby: Trails and the Beginnings of Grand Teton National Park

Militarized Landscapes: The State of the
(Battle)field

Roundtable 7-B: Salon 3 (conference level)

Chair: Evelyn Krache Morris, Georgetown University
Participants: Joel Hayward, Kings College – London / Royal Air Force College – Cranwell, England
Micah Muscolino, Georgetown University
Roger Levine, Sewanee: The University of the South
Jack Hayes, Norwich University
Ryan Edgington, The College of Wooster

Environmental Historians, the Job Market,
and Interdisciplinary Positions

Roundtable 7-C: Salon 4 (conference level)

Chair: Jim Feldman, University of Wisconsin – Oshkosh
Participants: John Hausdoerffer, Western State College
Kathryn Morse, Middlebury College
Jerritt Frank, University of Missouri
Jim Feldman, University of Wisconsin – Oshkosh

Making Environmental Laws Work: Citizen
Participation and Environmental Protection
in the U.S. and Mexico in the Late 20th
Century

Roundtable 7-D: Salon 5 (conference level)

Chair: James Turner, Wellesley College
Participants: Darren Speece, Sidwell Friends School
Christopher Boyer, University of Illinois – Chicago
Stephanie Capaldo, University of Arizona
Cody Ferguson, Arizona State University

Volatile Peaks: Modernities in the Alps

Panel 7-E: Salon 6 (conference level)

Chair: Christof Mauch, Ludwig-Maximilian University
Comments: Tait Keller, Rhodes College
Panelists: Marc Landry, Georgetown University
Europe’s Battery: The Alps, Water, and Power in Europe, 1870-195
Patrick Kupper, Eidgenössische Technische Hochschule - Zürich
Seeing like a Mountain: Nature Preservation and Modernism in the Aps
Thomas Zeller, University of Marylnd
Alpine Panoramas in the Automotive Age
Andrew Denning, University of California – Davis
Mining “White Gold”: The Skiing Industry and the Rationalization of the Alpine Environment in the Postwar Era

History of Energy Systems

Panel 7-F: Salon 7 (conference level)

Chair: Clark Miller, Arizona State University
Panelists: Richard Wojtowicz, Montana State University
Gassing the West: Coal Bed Methane Development in Montana and Wyomng
Julie Cohn, University of Houton
Expansion for Conservation: The Early Growth of North America’s Power Grid
Christopher Dietrich, Yale University
Drill, Baby, Drill: The Politicization of Alternative Energy Sources, 1973-1982

Aldo Leopold: Extending the Land Ethic to
Sustainability

Roundtable 7-G: Salon 8 (conference level)

Chair: Joan McGregor, Arizona State University
Participants: Julianne Lutz Warren, New York University
Bron Taylor, University of Florda
Bryan Norton, Georgia Institute of Technolgy
Dan Shilling, Arizona State University
Susan Flader, University of Missouri

Arthur F. McEvoy’s The Fisherman’s
Problem: A Twenty-fifth Anniversary
Retrospective

Roundtable 7-H: Gila (meeting level)

Chair: Andrew Isenberg, Temple University
Participants: Andrew Hurley, University of Missouri – St. Louis
Jared Orsi, Colorado State University
Bonnie Lynn-Sherow, Kansas State University
Arthur F. McEvoy, Southwestern Law School

History and Sustainability in the Pacific
Islands

Panel 7-I: Maricopa (meeting level)

Chair: Don Garden, University of Melbourne
Panelists: Frank Thomas, University of the South Pacific
Environmental History on Pacific Atolls: An Expanding Frontier
Carol MacLennan, Michigan Technological University
Industrial Waters and Island Sustainability in Hawa`ii
J. Donald Hughes, University of Denver
An Indigenous View of Environmental History in a Pacific Island World

The Transformation of Czechia 1990 – 2010
and Environmental Aspects of the Rural
Landscape Changes

Panel 8-A: Salon 1 (conference level)

Chair: Leos Jelecek, Charles University – Prague
Panelists: Vit Jancak, Charles University – Prague
The Transformation of Agriculture in Czechia 1990–2010: Some of Its Economic and Environmental Connections - Vit Jancak, L. Jelecek, J. Jaac
Nicholas Orsillo, Hnuti DUHA - Friends of the Earth Czech Republic
The Environmental Impacts of Agricultural Policy in the Bohemian-Moravian Uplands before and after the Transformaton
Pavel Chromy, Charles University – Prague
Historic-geographical and Environmental Elements in the Development of Heritage and Territorial Identities: Examples from Military Areas in Czechia - Pavel Chromy, Tomas Seidl, Zdenek Kucea

Late Lessons from Early History—Change
is Hard Project

Panel 8-B: Salon 2 (conference level)

Chair: Abigail York, Arizona State University
Panelists: Michelle Hegmon, Arizona State University
Seeds of Success, Seeds of Failure?: The Long-term Trajectory of Prehistoric Hohokam Irrigation in Arizona
Abigail York, Arizona State University
Freeways, Regimes, and Coalitions-An Institutional Analysis of Interstate Politics in Phoenix
Jameson Wetmore, Arizona State University
Flooding Risk in Phoenix: A Historical Analysis

Earth Under Surveillance: Environmental
Histories of the Cold War

Panel 8-C: Salon 3 (conference level)

Chair and Comments: Linda Nash, University of Washington
Panelists: Gretchen Heefner, Connecticut College
Wounded Prairie: The Ambiguous Legacy of National Security in the American West
Neil Maher, NJIT-Rutgers – Newark
Cold Star Wars: How Space Science and Global Nature Transformed the “Third Word”
Jacob Darwin Hamblin, Oregon State University
ENMOD and Beyond: Catastrophic Environmentalism in the Cold War

Mission Accomplished or Impossible?:
Sustaining the National Park Service’s
Mandate and Negotiating Public
Perception in the Postwar Era

Panel 8-D: Salon 4 (conference level)

Chair: David Louter, National Park Service
Comments: Kevin C. Armitage, Miami University – Ohio
Panelists: Tabitha Erdey, Washington State University
Sensitive Resources: Nez Perce National Historical Park and Resource Management at Weippe Prairie
Megan Jones, University of Delaware
Stewards of Tomorrow: The National Parks as a Proving Ground for American Youth
Adrian Howkins, Colorado State University
Frozen Ambition: The U.S. National Park Service and Antarctica in the 1960s and 1970s

Environmental NGOs in a Globalized World
(1970s-today)

Panel 8-E: Salon 5 (conference level)

Chair: Jean-François Mouhot, University of Birmingham
Panelists: Stephen Macekura, University of Virginia
Creating the Global Community: Environmentalism, Civil Society, and the 1972 Stockholm Conference
Alexis Vrignon, University of Nantes, France
Did Friends of the Earth Fail in the Seventies?
Jean-François Mouhot, University of Birmingham, United Kingdom
The 1980s Greenrush in Britain
Mao Da, Beijing Normal University
The Power and Limit of Chinese Environmental NGOs: Taking the Campaigns on Tibetan Antelope Protection and Garbage Sorting as Examples

Mountains and Modernity in North America

Panel 8-F: Salon 6 (conference level)

Chair and Comments: Joseph Taylor, Simon Fraser University
Panelists: Timothy Orr, University of California – Davis
Mountains, Mining, and Malfeasance: Railway Development in British Columbia’s Southern Interior, 1897-1916
Joseph Taylor, Simon Fraser University
“It was Me, Me, I, I, Me, Me”: Mountain Sport and Modernity

Screening of “Green Fire,” a new
documentary film on Aldo Leopold

Film and Discussion 8-G: Salon 8 (conference
level)

Engaging the Metropolitan Edge:
Hinterland Functions in the Expanding
Urban Landscape

Panel 8-H: Gila (meeting level)

Chair and Comments: Andrew Needham, New York University
Panelists: Kara Schlichting, Rutgers University
Terroir and the Politics of Place: The Postwar Contest between Agriculture, Suburbia, and Tourism on Long Island
Adam Zalma, Rutgers University
Landscape and a Changing Identity of Place: Staten Island 1842-1871
Allen Dieterich-Ward, Shippensburg University
Greening Pittsburgh: Economic Development and Environmental Image-Making in a “Post-Industrial” Region

Nuclear Industry Cases: Studies in
Unsustainable Practices

Panel 8-I: Maricopa (meeting level)

Chair: Colin Coates, York University
Panelists: Laurel MacDowell, University of Toronto
The Environmental Impact of Uranium Mining in Elliot Lake Ontario: A Case Study in Unsustainable Practices
Linda Richards, Oregon State University
The American Nuclear Industry: Sustainable or “Shot with Its Own Gun”?
Lisa Rumiel, McMaster University
More than Just a Dinner Party Know-it-all: How Historians Can Bridge the Knowledge Gap Between the Public, the Nuclear Industry, and the Past
Joseph Stromberg, University of Houston
Ambitious Negligence: Brown & Root and the Limits of Regulation at the South Texas Nuclear Project

Sense and Sanitation in the 19th Century
United States

Panel 9-A: Salon 1 (conference level)

Chair: Ruth Sandwell, University of Toronto
Panelists: Melanie Kiechle, Chemical Heritage Foundation
“The Nose as a Sanitary Agent”: The Importance of Odors to Health in Nineteenth-Century Homes
Daniel Gerling, University of Texas – Austin
Humanure in Flux: Excrement’s Transition to Waste in Late-19th Century America
Marisol Cortez, University of Kansas
Sewage Farming, Sludge Composting, and Recycling Rhetorics: Historical and Contemporary Cosmologies of Nature

Teaching Sustainability and/in/through
History

Roundtable 9-B: Salon 2 (conference level)

Chair: Deborah Buszard, Dalhousie University
Participants: Claire Campbell, Dalhousie University
Matthew Hatvany, Université Laval
Joshua MacFadyen, University of Prince Edward Island
Steven Mannell, Dalhousie University
Charles Redman, Arizona State University

Bases and Battlefields: Historical and
Geographical Approaches to Military
Landscapes

Panel 9-C: Salon 3 (conference level)

Chair: David Biggs, University of California – Riverside
Panelists: Joseph Hupy, University of Wisconsin – Eau Claire
Landscape Recovery and Land Use Histories at the Khe Sanh Battlefield, Vietnam
Matija Zorn, Scientific Research Centre of the Slovenian Academy of Sciences and Arts / Anton-Melik Geographical Institute
The Soca Front (WW 1): Landscape Recovery in a Mountainous Karst Landscape
Mary Cablk, Desert Research Institute
Military Wilderness: If a Bomb Drops in the Desert Do We Still Call it Wilderness?
David Biggs, University of California – Riverside
Hedgerows, Trash Dumps, and Hard Pan: Spatial Histories of Militarization in Central Vietnam

African-Americans and Environmental
History

Panel 9-D: Salon 4 (conference level)

Chair and Comments: Angelita Reyes, Arizona State University
Panelists: Ralph H. Lutts, Goddard College
Destroying Rosewood: Race Riots as a Vehicle for Appropriating Natural Resources
Alyssa Warrick, Mississippi State University
Jim Crow Takes a Bath: Hot Springs National Park and Southern Tourism, 1875-1965
Cindy Ott, St. Louis University
The Lives and Gardens of Three American Women: Constructing Race and Gender Identity in the Natural World

Hard Times in the Park: Recessions,
Depressions, and the Environment

Panel 9-E: Salon 5 (conference level)

Chair: Jonathan Anzalone, Stony Brook University, SUNY
Panelists: Joanna Dyl, University of South Florida
Living in San Francisco’s Parks: Public Space, Private Space, and Ideals of Urban Nature
William Ippen, Loyola University – Chicago
Garden for Victory: Urban Agriculture in Chicago’s Parks, 1942-1945
Carolyn Dwyer, Lehigh University
Seeing America, Being American: New Deal Reconstructions of Masculinity and Citizenship through National Parks
Clarence Jefferson Hall, SUNY Stony Brook
Prisons as Economic Savior in New York’s Adirondacks, 1975-1999

Public Lands Grazing Reexamined

Panel 9-F: Salon 6 (conference level)

Chair: Katherine Morrissey, University of Arizona
Comments: Marsha Weisiger, New Mexico State University
Panelists: Matt Pearce, University of Oklahoma
Shoveling the West into America’s Rivers: The Portrayal of Ranchers as Anti-Conservationists During the “Great Land Grab” of 1947
Robin Pinto, University of Arizona
Range Rights vs. Grazing Privilege: The Ranching Conflict at Organ Pipe Cactus National Monument
Mark Fiege, Colorado State University – Fort Collins
Cowboy Resource Management: The Influence of Livestock Husbandry on the National Park Service

Smoke, Scenery, Snow, and Science:
New Perspectives on Railroads and
Environmental History

Panel 9-G: Salon 7 (conference level)

Chair: Thomas Andrews, University of Colorado – Denver
Panelists: Ken Cruikshank, McMaster University
Forest, Stream, and Seashore: Working with Nature on “The People’s Railway”, 1876-1914
Elsa Lam, Columbia University
From Castles to Cabins: The Canadian Pacific Railway and the Making of the Canadian Rockies, 1885-1929
Thomas Finger, University of Virginia
Regulating Railroads and Ordering Natural Knowledge in New York State, 1840-1900
Adam Eastman, University of Oklahoma
Mandating Change: Forced Implementation, technological solutions, and the end the railroad smoke nuisance in Salt Lake City

Humans, Nature, and Reform in 1960s
America

Panel 9-H: Salon 8 (conference level)

Chair: Finn Arne Jørgensen, Umeå University
Comments: Audience
Panelists: Ruth Alexander, Colorado State University
Restoring Humans to Nature’s Stage: Naturalism and Modernism in the Writings of Jane Jacobs, Rachel Carson, and Betty Friedan in the early 1960s
Jeffrey Sanders, Washington State University
Children, Nature, and the “Urban Crisis” of the 1960s
Byron Pearson, West Texas A&M
The Environmental Legacy of Stewart Udall: History and Memory

The Nature of Cruelty and the Cruelty of
Nature: Writing an Environmental History
of Cruelty

Panel 9-I: Gila (meeting level)

Chair: Sandra Swart, Stellenbosch University
Panelists: Sandra Swart, Stellenbosch University
Animal Rites, Rights and Whites – Traditional African Beliefs and Animal Slaughter in South Africa
Lawrence Mastroni, University of Oklahoma
Different Dimensions of Cruelty toward the Elk of Jackson Hole, Wyoming
Kim Socha, Normandale College
Destruction of Nature, Construction of Identity: An Investigation Into Cruelty

The Print Culture of the Environmental Movement

Panel 10-A: Salon 1 (conference level)

Chair: Andrew G. Kirk, University of Nevada – Las Vegas
Panelists: Gregory J. Dehler, Front Range Community College
Our Vanishing Wild Life: William Temple Hornaday’s Case for Wildlife Protection
Andrew Case, University of Wisconsin – Madison
“The Power of Positive Conservation”: Gardening, Environmental Politics, and The Rodale Press
Cheryl Knott Malone, University of Arizona – Tucson
“Old Wine into New Historical Bottles”: Stewart L. Udall’s Use of History in The Quiet Crisis

Race and Resources: The Human Ecology of River Development in Texas and New Mexico

Panel 10-B: Salon 2 (conference level)

Chair: Mark Fiege, Colorado State University
Comments: DC Jackson, Lafayette College
Panelists: Margaret Bickers, Kansas State University
The Canadian River Corridor: A Comanche and Hispano Highway
Kenna Archer, Texas Tech University
Struggles in God’s Land: Continuity, Competition, and Development along el Rio de los Brazos de Dios
Char Miller, Pomona College
Water Power: The Politics of Flood Control in San Antonio

Conservation and the Military Mind: The Historical Progression toward Environmental Sustainability and Biodiversity on U.S. Military Lands

Panel 10-C: Salon 3 (conference level)

Chair and Comments: David Havlick, University of Colorado – Colorado Springs
Panelists: Jean Mansavage, U.S. Air Force Historical Studies Office
Pioneering Environmental Policy: Sowing the Seeds for Environmental Conservation in the U.S. Military
Thomas Lillie, Bureau of Ocean Energy Management, DOI
Natural Resources Management in the United States Military, 1960-1990
J. Douglas Ripley, HDR-engineering-environmental Management, Inc.
The Development of Biological Diversity Conservation as an Essential Element of the Department of Defense’s Natural Resources Management Program

The Natures of Asia: Environmental Histories of Empires and Nations in 20th-century Asia

Panel 10-D: Salon 4 (conference level)

Chair: David Biggs, University of California – Riverside
Panelists: Kjell Ericson, Princeton University
Pearls, Plankton, and Patents: Luxury Product Aquaculture in the Japanese Empire, c. 1890-1940
Michitake Aso, University of Wisconsin – Madison
To Conserve or Destroy? Plantations as Battlefields in the First Indochina War, 1945-1954
Michele Thompson, Southern Connecticut State University
The Saola: Object of a Local, National, and International Tug-of-War
Patrick Caffey, Washington and Jefferson College
The Natures of Asia

Industrial Environments, Health, and Working Class Communities

Panel 10-E: Salon 5 (conference level)

Chair: Meghan Crnic, University of Pennsylvania
Panelists: Meghan Crnic, University of Pennsylvania
Children at the Sea: The Seashore as Remedy for Urban Environments, 1860-1920
Richard Fry, Wayne State University
Coal Miners and Federal Health and Safety Regulation in the United States, 1969-1985
Craig Biegel, Florida State University
Manufactured Science: The Attorneys’ Handmaiden

Dreams of Development

Panel 10-F: Salon 6 (conference level)

Chair: Jeffrey Kosiorek, Hendrix College
Panelists: Jeffrey Nichols, Westminster College – Salt Lake City
“Slowly but Surely Forging to the Front”: Mining and its Consequences in Moab
Paul Nelson, Otterbein College
Road to Wealth: The Trans-Escalante Highway Proposal and Wilderness Politics in Southeastern Utah, 1964-1975
Alesia Maltz, Antioch University
“Scotland Will Never Run Out of Rocks:” Sustainability and Cultural Continuity

Science, Sacred Stories, and Sustainability: The Use and Abuse of Narrative

Panel 10-G: Salon 7 (conference level)

Chair and Comments: Joan McGregor, Arizona State University / School of Sustainability
Panelists: Jane Caputi, Florida Atlantic University
Feeding the Green Fire: Quintessential Integrity and the Life and Death of Aldo Leopold
Lisa Sideris, Indiana University
Forbidden Fruit: Religious Narrative and the Quest for the Atomic Bomb
Lucas Johnston, Wake Forest University
The Gospel of Efficiency, Spooky Action at a Distance, and the Hundredth Monkey: How Biological and Physical Sciences Helped Manufacture the Myth of Sustainability

Environmental Activism

Panel 10-H: Salon 8 (conference level)

Chair: Jean-François Mouhot, University of Birmingham, United Kingdom
Panelists: Katrina Lacher, University of Oklahoma
“A Chilling Effect”: Edmund Muskie, the FBI, and the First Earth Day
Martin Kalb, Northern Arizona University
Green Justice in History? Community Initiatives, Environmental Justice, and the Rise of the German Greens
Angie Gumm, Iowa State University
The Other Solid Waste Disposal: Resource Recovery and How Its Demise Was Related to the Entrenchment of America’s Environmental Values
Elizabeth (Scout) Blum, Troy University
Batman and Robin Meet the Lorax: Children’s Responses to Messages About the Environmental Movement, 1970-1980

Reckoning Architecture, Cultural Landscape, and Environmental History

Panel 10-I: Gila (meeting level)

Chair: Kristin Szylvian, Western Michigan University
Panelists: Robert Mellin, McGill University
Tilting, Fogo Island, Newfoundland: Eidetic Interpretations of a Fragile Cultural Landscape
Michael Chiarappa, Western Michigan University
The Bivalve’s Portal to America: The Environmental Ripple of Delaware Bay Oyster Processing Architecture
Leila Marie Farah, McGill University
Bread and Buttresses: A Cereal Path—An Essential Ingredient to the Urban Development of French Canadian Cities

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If you would like to volunteer to serve on a committee, contact director@aseh.net

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Index

A

Adamson, Joni 4, 27, 42
Aguila, Jaime 26
Akers, John 32
Aldern, Jared 25
Alexander, Ruth 39
Allen, Richard 25
Altenbernd, Erik 22
Anders, Ulrike 10
Andrews, Thomas 39, 42
Anzalone, Jonathan 24, 38
Archer, Kenna 40
Armiero, Marco 23
Armitage, Kevin C. 28, 36
Arnold, Tom 25
Aso, Michitake 11, 40

B

Barber, Daniel A. 26
Barca, Stefania 22
Barnett, Will 23, 25
Barrow, Mark 43
Bartlet, Peggy 11
Barwick, Roxane 2, 42
Baselious, Soraya 10
Bawreja, Vandana 11, 26
Bebow-Reinhard, Monette 32
Begay, Elsie Mae 12, 31
Beier, Paul 29
Bello, David 30
Belton, Thomas 25
Benac, David 43
Benson, Etienne 23
Bentzin, Bonny 4, 42
Bickers, Margaret 40
Biegel, Craig 41
Biggs, David 38, 40, 43
Bilka, Monika 4, 42
Bivona, Michael 29
Black, Brian 22, 27
Blee, Lisa 28
Blum, Elizabeth (Scout) 41, 43
Bohn, Maria 10
Bostwick, Todd 4, 8, 24, 42
Bourque, Monique 29
Boyer, Christopher 10, 25, 34
Brady, Lisa 11, 30, 32, 43
Brain, Stephen 28
Bramwell, Lincoln 15, 42
Bratton, Susan 32
Brennan, Claire 24
Brevoort, Roger 16
Brideau, Jeff 23
Brooks, David 26
Brooks, Karl 33

Brosnan, Kathleen 27, 42
Brown, David E. 29
Brown, Jennifer Corrinne 10
Brown, Karen 26
Brownell, Emily 26
Buszard, Deborah 38

C

Cablk, Mary 38
Caffey, Patrick 40
Campbell, Claire 38
Caniglia, Noël Cox 25
Canty, Jeanine 25
Capaldo, Stephanie 26, 34
Caputi, Jane 41
Carruthers, Jane 43
Case, Andrew 40
Cater, Casey 25
Chakrabarti, Ranjan 11, 30
Charley, Perry 12, 31
Chiang, Connie 5, 42
Chiarappa, Michael 41
Chiro, Giovanna Di 27
Christen, Catherine 29, 32, 42
Christensen, Jon 22
Chromy, Pavel 36
Cioc, Mark 42
Closmann, Charles 30
Clutter, Michael 43
Coates, Colin 29, 37, 42
Coen, Ross 24
Cohn, Julie 35
Coleman, Robert 4, 42
Collins, James 23
Colten, Craig 43
Cortez, Marisol 38
Cox, Lisa 31
Crane, Jeff 24
Crnic, Meghan 41
Cronon, William 11, 13, 20, 43
Crow, Michael 12, 20
Cruikshank, Ken 39
Crymble, Adam 43
Cushman, Gregory 22, 24

D

Dagenais, Michele 25
Dallett, Nancy 4, 14, 42
Da, Mao 37
Dant, Sara 26
Davidson, Hugh 4, 8, 16, 42
Davis, Diana K. 22, 43
Davis, Fritz 13, 15
Davis, Kathryn 27, 29
Degroot, Dagomar 32
Dehler, Gregory J. 40, 43
del la Parra, Carlos 12
Dell, Twyla 22

Denning, Andrew 34
Devienne, Elsa 11, 24
Dieterich-Ward, Allen 37
Dietrich, Christopher 35
Donahue, Brian 26
Drogan, Mara 43
Drummond, Jose 34
Dudley, Shelly 24
Duncan, Samuel 26
Dunlap, Thomas 43
Dwyer, Carolyn 38
Dyl, Joanna 38

E

Eastman, Adam 39
Eaton, Richard 23
Edgington, Ryan 34
Egan, Michael 5, 24, 26, 28, 42
Elkind, Sarah 42
Elmore, Bartow 11, 26
Enkerlin, Ernesto 16
Erdey, Tabitha 32, 36
Ericson, Kjell 40

F

Farah, Leila Marie 11, 41
Feldman, Jim 23, 25, 34, 42
Fenby, Claire 24
Ferguson, Cody 15, 34, 42
Fiege, Mark 39, 40
Figueroa, Robert Melchior 27
Finger, Thomas 39
Finlay, Mark 22
Fisher, Andrew 28
Flader, Susan 35
Fleming, James 22, 24
Frank, Jerritt 34
Fry, Richard 41
Fuglaar, Stephanie 31

G

Gade, Kristin 10
Garden, Don 24, 35
Garone, Philip 22, 24
Gerling, Daniel 38
Glaser, Leah 32
Goble, Dale 42
Goodman, Lori 12, 31
Gordon, Greg 26, 29
Gregg, Sara 27, 43
Grijalva, Raúl M. 12
Guerrini, Anita 42
Gumm, Angie 41

H

Hadley, Diana 17
Hale, Rebecca 23

Hallam, Nathan 15
Hall, Clarence Jefferson 38
Hall, Jeff 24
Hall, Marcus 28, 30, 4
Haller, Cynthia 10 2
Hamblin, Jacob Darwin 36, 43
Hamilton, Sarah 42
Hardenberg, Wilko Graf von 10
Harper, Kristine 23
Harvey, Mark 42, 43
Hatfield, Samantha Chisholm 12, 31
Hatvany, Matthew 38
Hausdoerffer, John 34
Havlick, David 40
Hayes, Jack 34, 43
Hayward, Joel 34
Heasley, Lynne 26, 42
Heefner, Gretchen 36
Hegmon, Michelle 36
Hellmich-Bryan, Judy 16
Herron, John 22
Hillegas, James 25
Hill, Sarah 18, 33
Hirt, Paul 4, 5, 7, 16, 17, 42, 43
Hoerder, Dirk 23
Hoffmann, Richard 30
Hood, Sylvia 31
Howkins, Adrian 34, 36
Hsiung, David 32
Hudson-Koster, Mickie 26
Hughes, J. Donald 35
Hupy, Joseph 38

I

Ingram, Annie 29
Ippen, William 38
Isenberg, Andrew 35
Ivey, Linda 25

J

Jaeger, Lisa 29
Jelecek, Leos 36
Johnson, Robert 25, 29
Johnston, Lucas 41
Jones, Christopher 29
Jones, Megan 36, 42
Jørgensen, Dolly 30, 43
Jørgensen, Finn Arne 39

K

Kahn, Susan 30
Kalb, Martin 41
Keller, Tait 34
Kelman, Ari 42, 43
Kerr, Daniel 29
Keyser, Richard 30, 42
Khazeni, Arash 30

Kinder, Kimberley 22
Kirk, Andrew G. 40
Kline, Bonnie 15
Klingler, Matt 43
Knight, William 10
Kosiorek, Jeffrey 41
Koster, Auriane 29
Krech, Shepard 42
Kupper, Patrick 34

L

Lacher, Katrina 41
LaCombe, Kent 25
LaFlamme, Cheri 10
Landry, Marc 34
Langston, Nancy 24, 42, 43
Lang, William 32
Lawson, James 32
Lee, Erik 18
Levine, Roger 34
Lewis, Amanda 34
Lewis, Jamie 18
Lillie, Thomas 40
Lim, Merlyna 29
Little, Kimberly 27, 43
Louter, David 36, 42
Lutts, Ralph H. 38
Lynn-Sherow, Bonnie 35

M

MacDowell, Laurel 12, 31, 37
MacEachern, Alan 16, 42
Macekura, Stephen 37
MacFadyen, Joshua 38
MacLennan, Carol 35
Maddox, Gregory 25
Madison, Mark 29, 30, 42, 43
Maher, Neil 36, 43
Malone, Cheryl Knott 40
Maltz, Alesia 41
Mannell, Steven 38
Mansavage, Jean 40
Martin, Eliza 22
Mastroni, Lawrence 39
Mauch, Christof 30, 34
McCown, Ken 30
McCullough, Cali 4, 42
McEvoy, Arthur F. 35
McGregor, Joan 35, 41
McNeill, John 42, 43
Meierotto, Lisa 17, 26
Meine, Curt 29
Melillo, Edward 26
Mellin, Robert 41
Melosi, Martin 29, 32, 43
Merchant, Carolyn 33
Mighetto, Lisa 7, 42
Mikhail, Alan 30

Miller, Char 32, 40, 43
Miller, Clark 33, 35
Miller, Craig 32
Miller, Ian 42
Miller, Mark 32
Mitman, Gregg 42
Möllers, Nina 29
Montemayor, Gabriel 30
Morrissey, Katherine 39
Morse, Kathryn 34, 42
Mouhot, Jean-François 37, 41
Muchnick, Barry 27, 29, 43
Murray, Vincent 4, 24
Murton, James 42
Muscolino, Micah 30, 34
Myllyntaus, Timo 33

N

Nabhan, Gary Paul 29
Nash, Linda 36, 42, 43
Needham, Andrew 37
Neeley, Jenny 12
Nelson, Paul 41
Nichols, Jeffrey 41
Norgaard, Richard 28
Norton, Bryan 35

O

O'Rourke, Ed 24
Orr, Timothy 37
Orsi, Jared 35
Orsillo, Nicholas 11, 36
Oslund, Karen 28
Ott, Cindy 38, 43

P

Palmer, Carol 32
Pasqualetti, Martin (Mike) 33
Pawley, Emily 22
Pearce, Matt 39
Pearson, Byron 39
Penziner, Victoria 22
Philpott, William 27, 32
Pinto, Robin 39
Pisani, Donald 27
Poe, Robert 29
Pogue, Neall 32
Pompeii, Brian 23
Pratt, Joe 33
Prendergast, Neil 26
Priest, Tyler 22, 27
Princen, Thomas 28
Pritchard, James 34
Pyne, Stephen 4, 17, 42

R

Rajan, Ravi 42

Rawson, Michael 24
Redman, Charles 38
Regan, Margaret 18
Reyes, Angelita 38
Richards, Linda 10, 37, 42
Rimby, Susan 27
Ripley, J. Douglas 40
Ritvo, Harriet 13, 42, 43
Roberts, Jody 28, 33
Roberts, Nathan 28
Robin, Libby 26, 30
Rodriguez, Steve 10, 34
Ronnbeck, Klas 23
Rosen, Christine 43
Rosenthal, Gregory 43
Rosinbum, John 18
Ross, Alasdair 29
Roth, Matthew 31
Rüdiger, Mogens 33
Rumiel, Lisa 37
Rumore, Gina 23, 42

S

Sabin, Paul 24, 27
Sada, Sergio Guevara 16
Sadin, Paul 30
Sagarin, Rafe 25
Sanders, Jeffrey 39
Sandwell, Ruth 38
Santiago, Gregorio 10, 31
Santiago, Myrna 27
Schade, Abigail 11, 24
Schlichting, Kara 11, 37
Schlyer, Krista 10
Schoon, Michael 29
Schrecker, Ted 26
Sedrez, Lise 10
Shaffe, Marguerite 32
Shapiro, Aaron 18, 42
Shepherd, Jeff 17
Sheridan, Thomas 12, 17
Shilling, Dan 35
Sideris, Lisa 41
Siegman, Stevie 43
Sistrunk, Tim 30
Slack, Nancy 10
Slavin, Philip 32
Smith, Hayden R. 23
Smith, Michael 42
Socha, Kim 39
Soll, David 30
Soluri, John 29
Sörlin, Sverker 26
Sowards, Adam 42, 43
Spanagel, David I. 22
Speece, Darren 34
Spezio, Teresa Sabol 22
Spiro, Erica 29
Spitz, Jeff 12, 31

Sprenger, Jana 10
Steele, Kim 30
Steiger, Eric 22
Stewart, Mart 23, 42, 43
Stokland, Håkon B. 28
Stoll, Mark 32, 43
Stromberg, Joseph 37
Stroud, Ellen 42
Stuckey, Priscilla 25
Summitt, April 4, 18, 23, 42
Sutter, Paul 30, 43
Sutton, Robert 16
Swart, Sandra 26, 39
Sysak, amara 24
Szuter, Christine 4, 18
Szylvian, Kristin 4

T

Taber, Jared 23
Taylor, Bron 35
Taylor, Joseph 37
Thomas, Frank 11, 35
Thompson, Michele 40
Todd, David 30
Tomkins-Walsh, Teresa 27
Tompkins, Adam 4, 15, 16, 42
Tsutsui, William 42
Tucker, Richard 5, 7, 23, 25, 42, 43
Turner, James 34

U

Uekötter, Frank 22

V

Valencius, Conevery Bolton 22
Van Der Leeuw, Sander 11
Voggesser, Garrit 28, 42
Vrignon, Alexis 37

W

Ward, Christopher 28
Warde, Paul 26
Warren-Findley, Jannelle 32
Warren, Julianne Lutz 29, 35
Warren, Louis 43
Warren, Scott 26
Warrick, Alyssa 38
Washington, Sylvia Hood 12
Watson, Andrew 11, 25
Watt, Laura 5, 42
Webb, James L.A., Jr 30
Weiner, Douglas 28, 42
Weisiger, Marsha 16, 39, 43
Wellock, Thomas 43
Wells, Christopher W. 26
Wetmore, Jameson 36
White, Dave 16

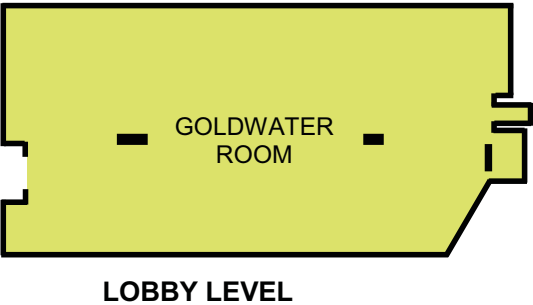
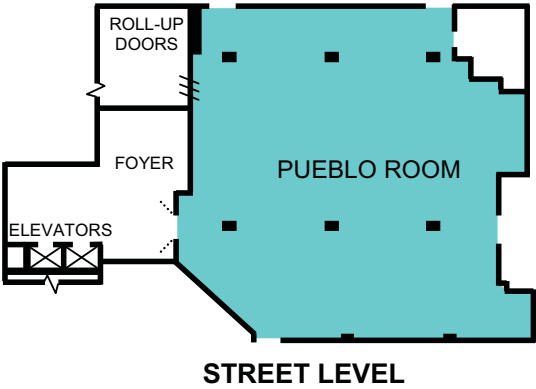
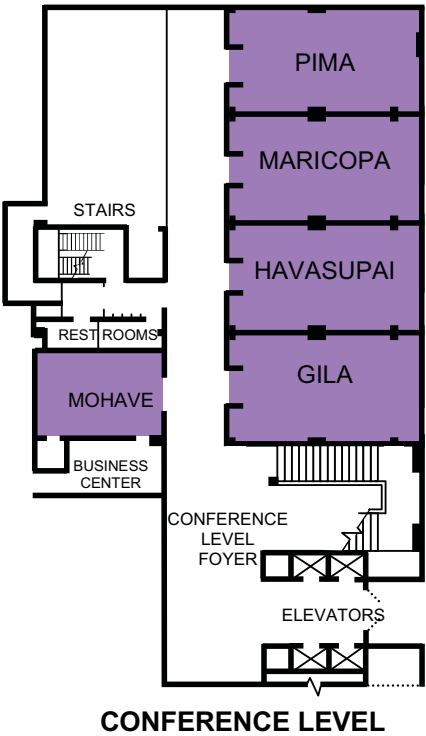
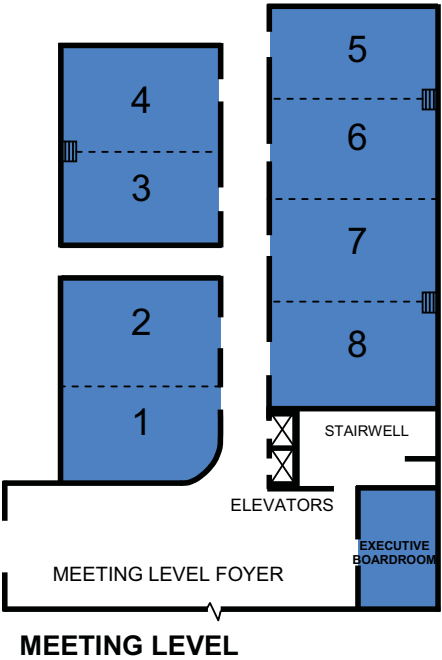
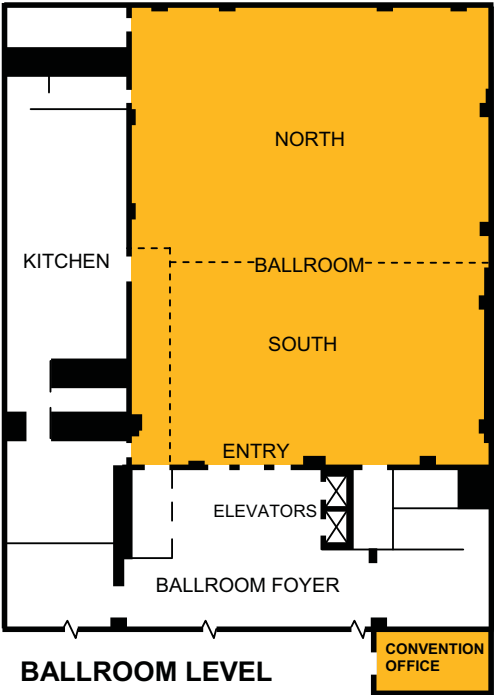
White, Sam 22
Whyte, Kyle Powys 27
Wilk, Richard 28
Winiwarter, Verena 43
Wojtowicz, Richard 35
Woodbury, Alicia 29
Wood, Linda 11

Y

York, Abigail 36
Young, Phoebe S.K. 32
Young, Terence 16

Z

Zalma, Adam 37
Zeidler, James 32
Zeller, Thomas 34
Zizzamia, Dan 25
Zorn, Matija 38



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Madison Wisconsin

In addition to sessions, plenary talks, and a workshop at the Aldo Leopold Center, potential site visits could include:

- Madison walking or biking tour
- UW Arboretum: birthplace of restoration
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- Frank Lloyd Wright's Wisconsin
- Badger Army Ammunitions Plant
- Wollersheim Winery
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ENVIRONMENTAL HISTORY

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March 28-31, 2012 in Madison, Wisconsin

From the Local to the Global: Ethics, Environmentalism, and Environmental History in an Interdependent World

For its 2012 conference the American Society of Environmental History will convene in Madison, Wisconsin, a city and state rich in historical and environmental heritage. Here environmentalist John Muir grew up and took courses in botany and geology at the University of Wisconsin, frontier historian Frederick Jackson Turner transformed the study of US history, and borderlands historian Herbert Eugene Bolton began his own transformative career. In Wisconsin architect Frank Lloyd Wright built structures attuned to the American landscape, and painter Georgia O'Keeffe began her career as an artist depicting that landscape. While closely identified with the American Midwest, Wisconsin is also a border state, facing Ontario across Lake Superior. 2012 will be the 125th anniversary of the birth of one of Wisconsin's most important environmental thinkers who rose to international prominence, Aldo Leopold.

In *A Sand County Almanac* and "The Land Ethic," Leopold tried to find ways to live ethically with nature, and this began not in an iconic wilderness like Yosemite or Yellowstone but instead at the most local level - one's own home, yard, or farm. Leopold tied this idea of local responsibility to a much broader, all-encompassing environmental awareness, a land ethic informed by both science and morality that possessed the potential to be nationally and even globally transformative. Like Leopold, the ASEH conference for 2012 will begin with the local, but look to the global. We take his work as a starting point to look inward and outward, across chronological eras and geographic divides.

We especially encourage submissions in all areas broadly related to his works - science, ethics, the evolution of ecological ideas, the body, food, the interplay between built and natural environments, local, national, and transnational histories, environmental change, and environmentalism and environmental advocacy. We also welcome paper, panel, roundtable, and poster session proposals in all areas of environmental history and related disciplines. Like Leopold, individuals and groups all over the world are searching for ways to live better with nature, and to make a better world for all outside of traditional political structures and older models of environmentalism.

Submission Guidelines

The program committee invites panel, roundtable, individual paper, and poster proposals for the conference. We strongly prefer to receive complete session proposals but will endeavor to construct some sessions from proposals for individual presentations. Sessions will be scheduled for 1.5 hours. **Please note that it is ASEH policy to allow at least 30 minutes for discussion in every session.** No single presentation should exceed 15 minutes, and each roundtable presentation should be significantly shorter than that, as roundtables are designed to maximize discussion among the speakers and with the audience. Commentators are allowed but not required.

The committee invites proposals in formats beyond the typical paper session where presenters offer something other than verbatim recitals of written papers. To maximize participation, we encourage session proposals with more participants giving shorter presentations (e.g., four presenters at 12 minutes each). Please note that individuals can be a primary presenter in only one panel, roundtable, or other session proposal, but can also serve as chair or commentator in a second session proposal.

Proposals can be submitted electronically here: www.aseh.net ("see conferences")

The deadline for submissions is July 1, 2011.

All presenters and other participants are expected to register for the annual meeting. If you have any questions, please contact: Lawrence Culver, Utah State University, Program Committee Chair, lawrence.culver@usu.edu Nancy Langston, University of Wisconsin, Local Arrangements Committee Chair nelangst@wisc.edu

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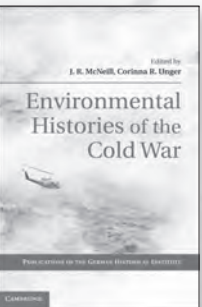
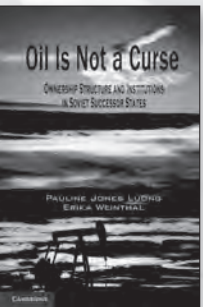
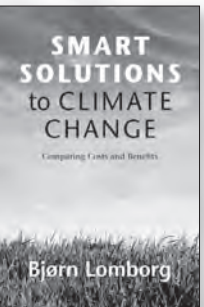
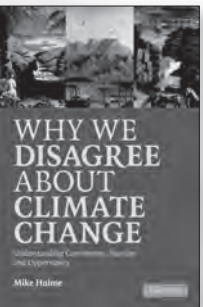
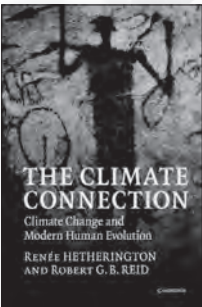
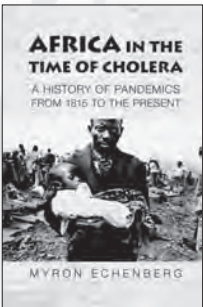
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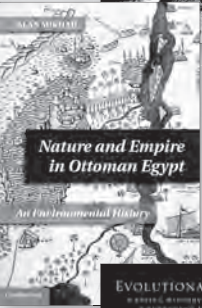
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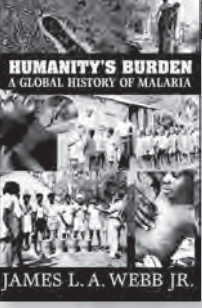
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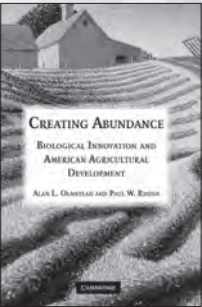
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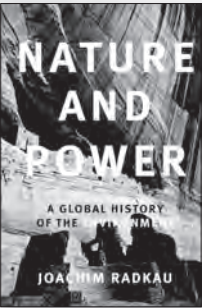
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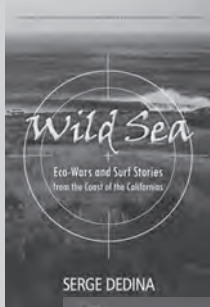


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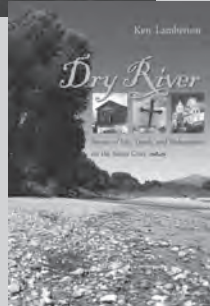
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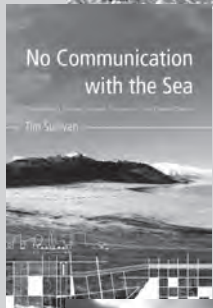
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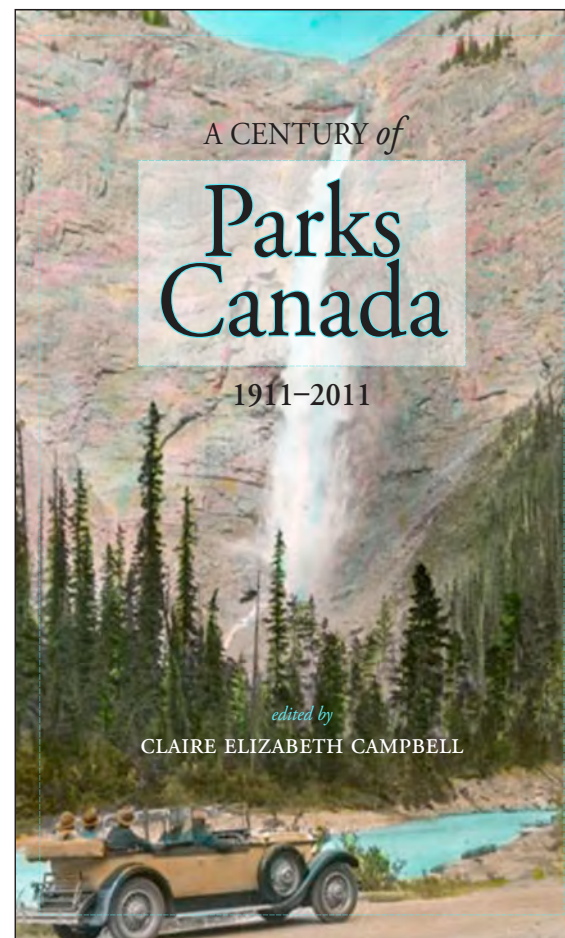


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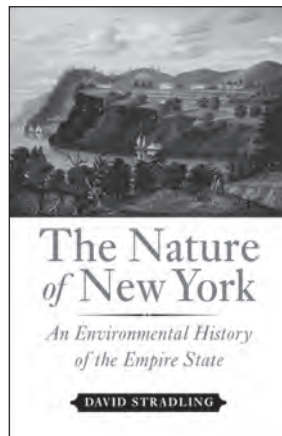
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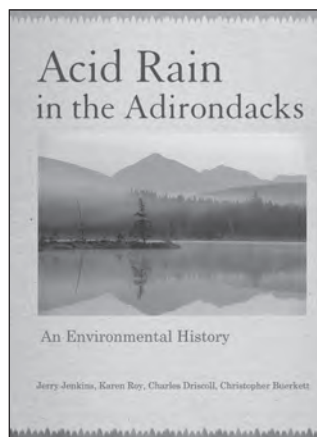
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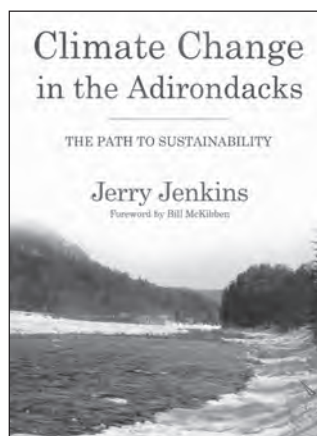
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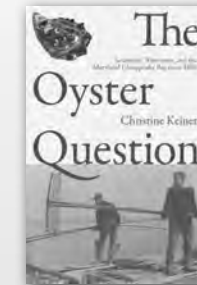


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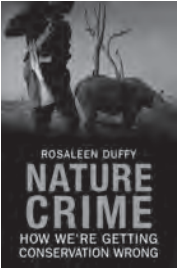
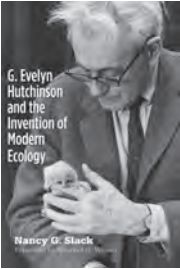
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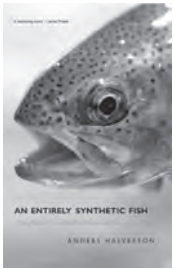
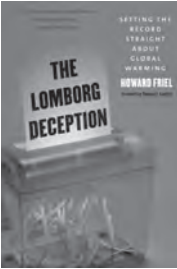
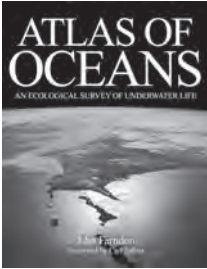
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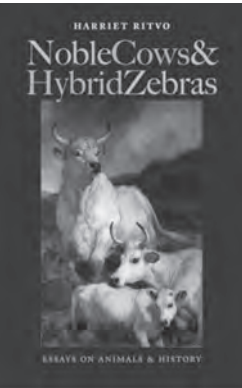
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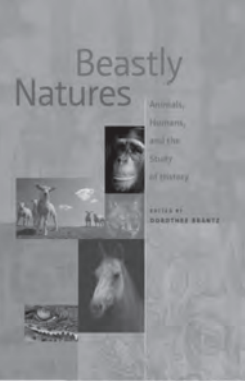
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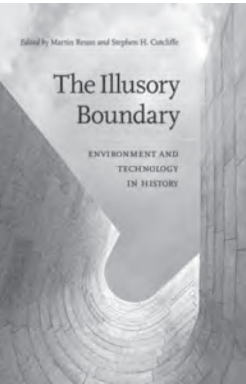
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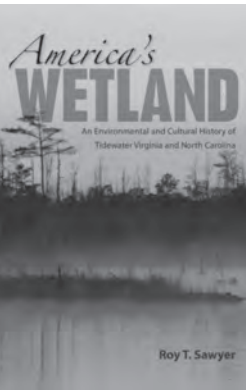
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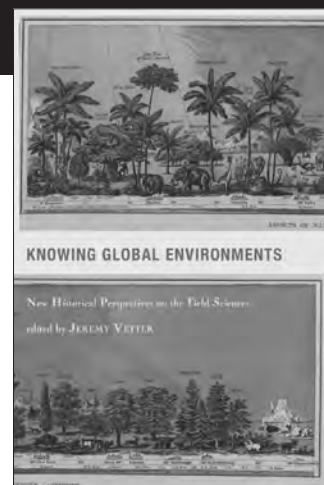
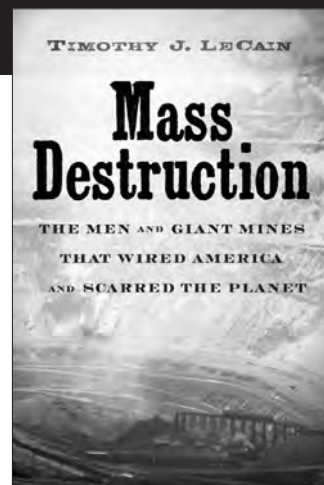
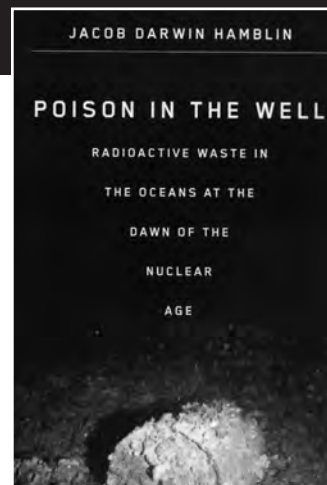
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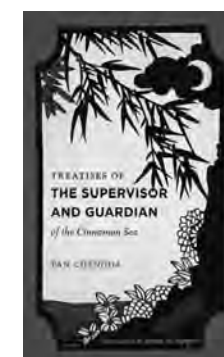
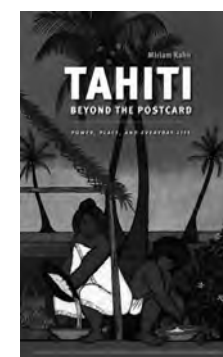
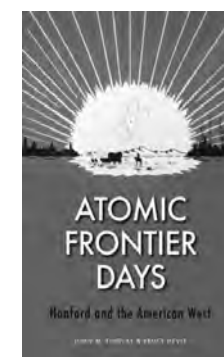
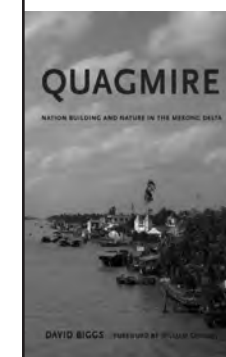
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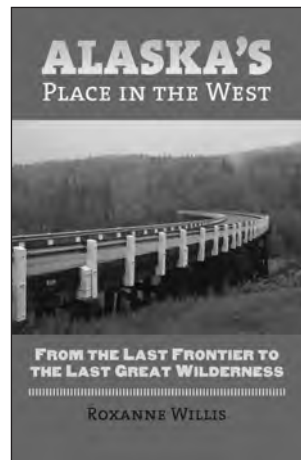
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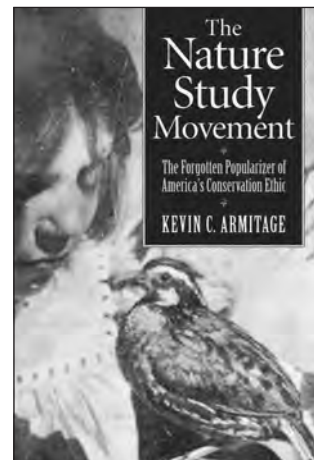
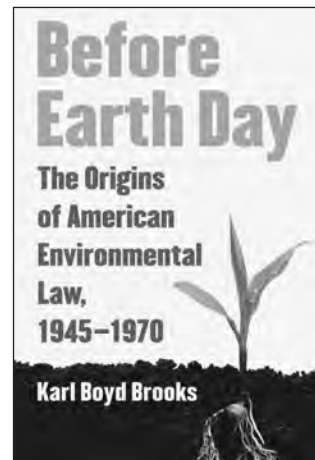
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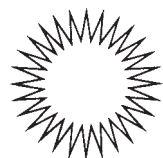
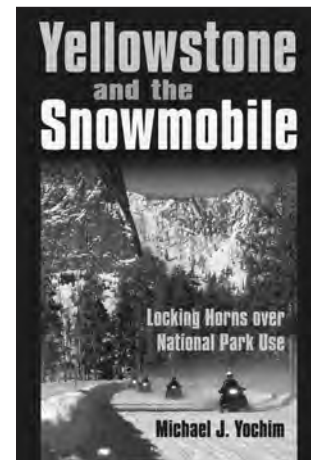
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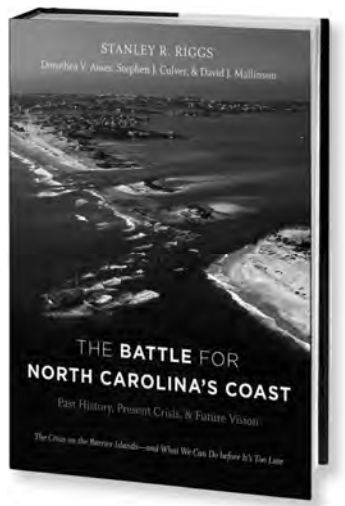
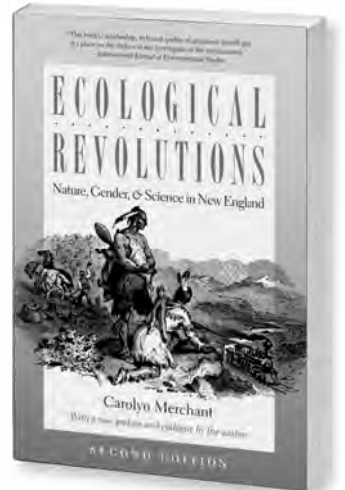
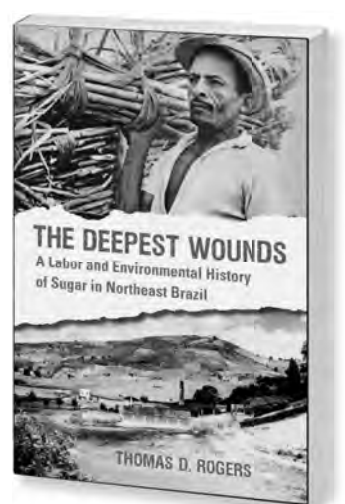
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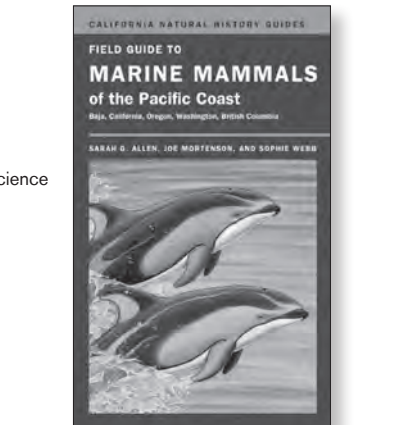
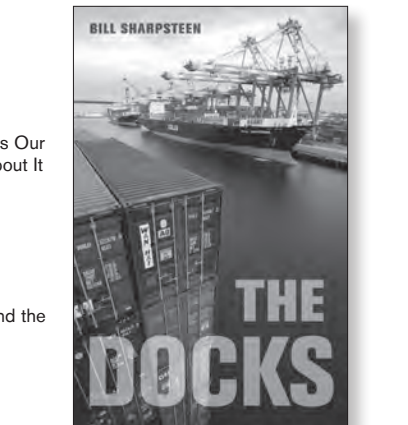
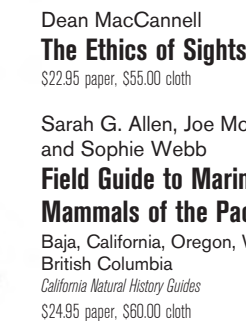
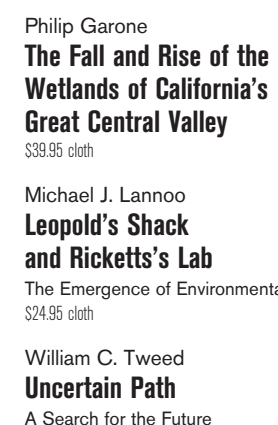
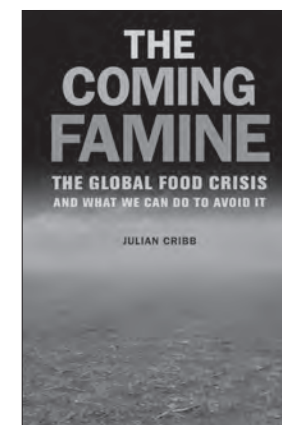
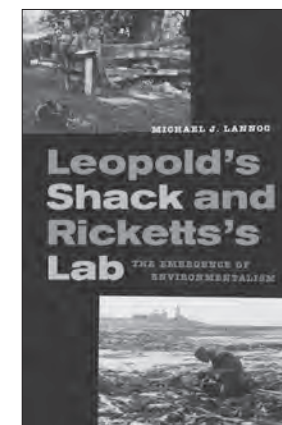
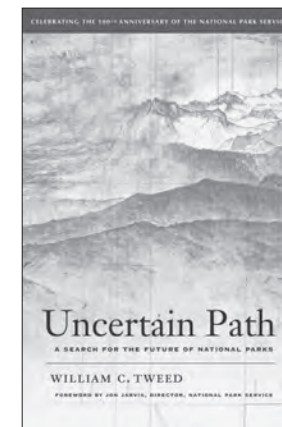
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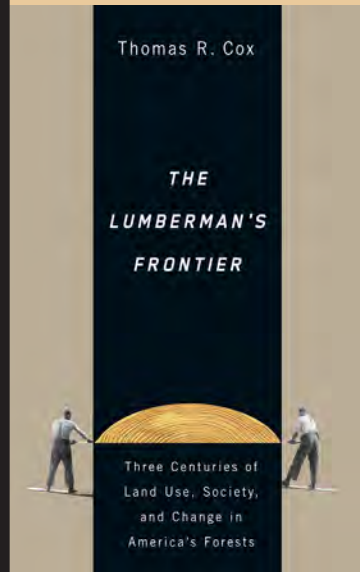
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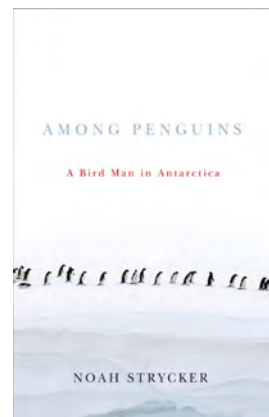
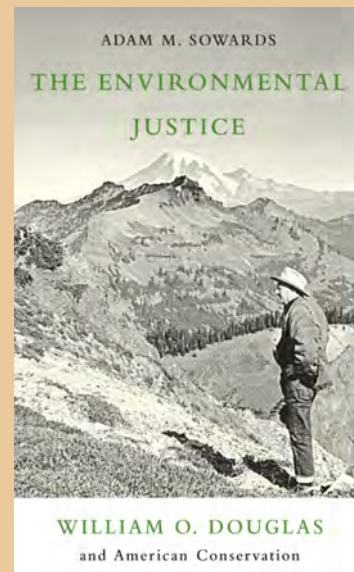
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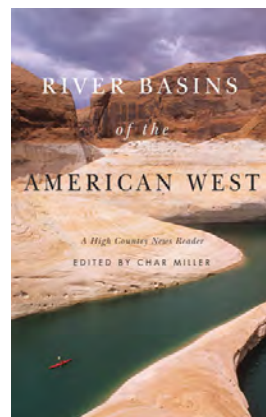
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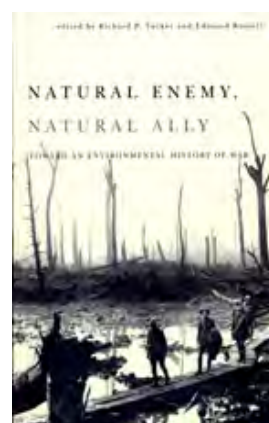
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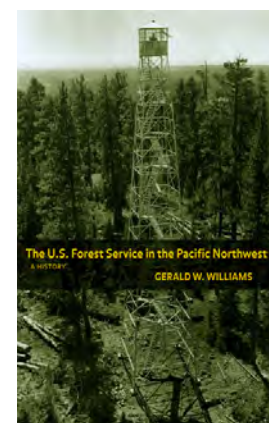
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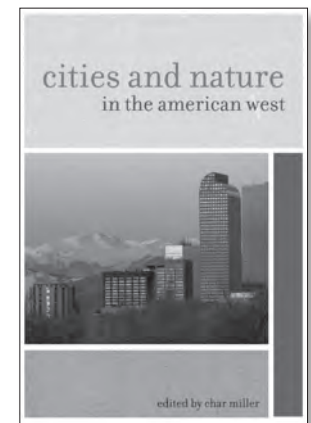


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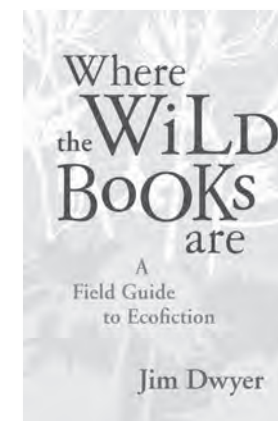
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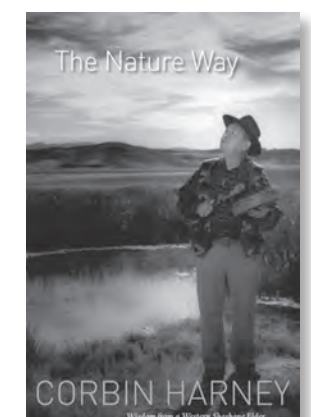
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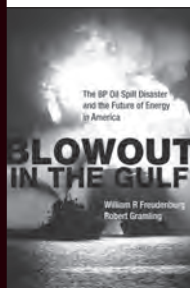
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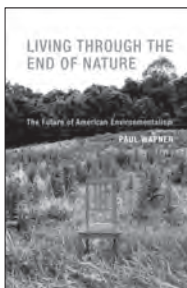
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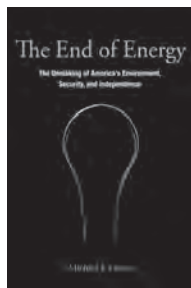
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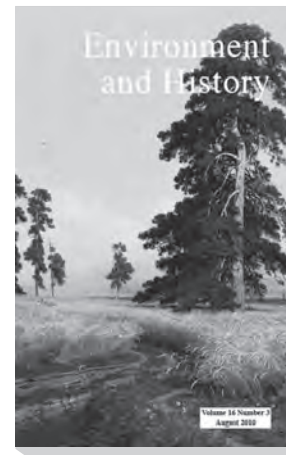
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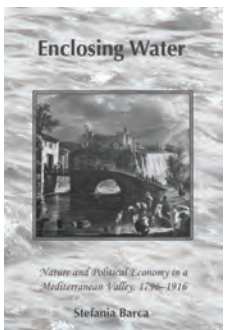
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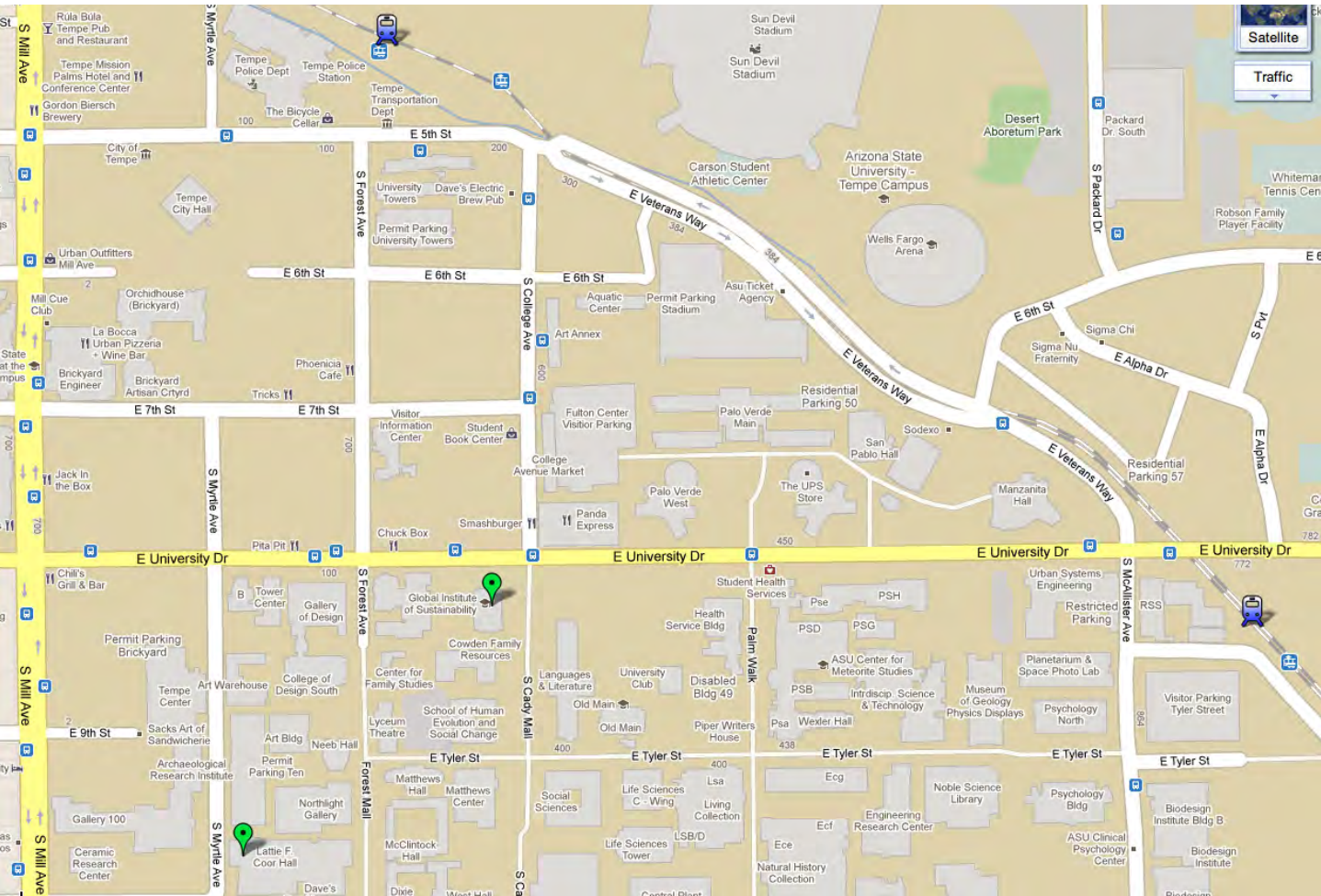
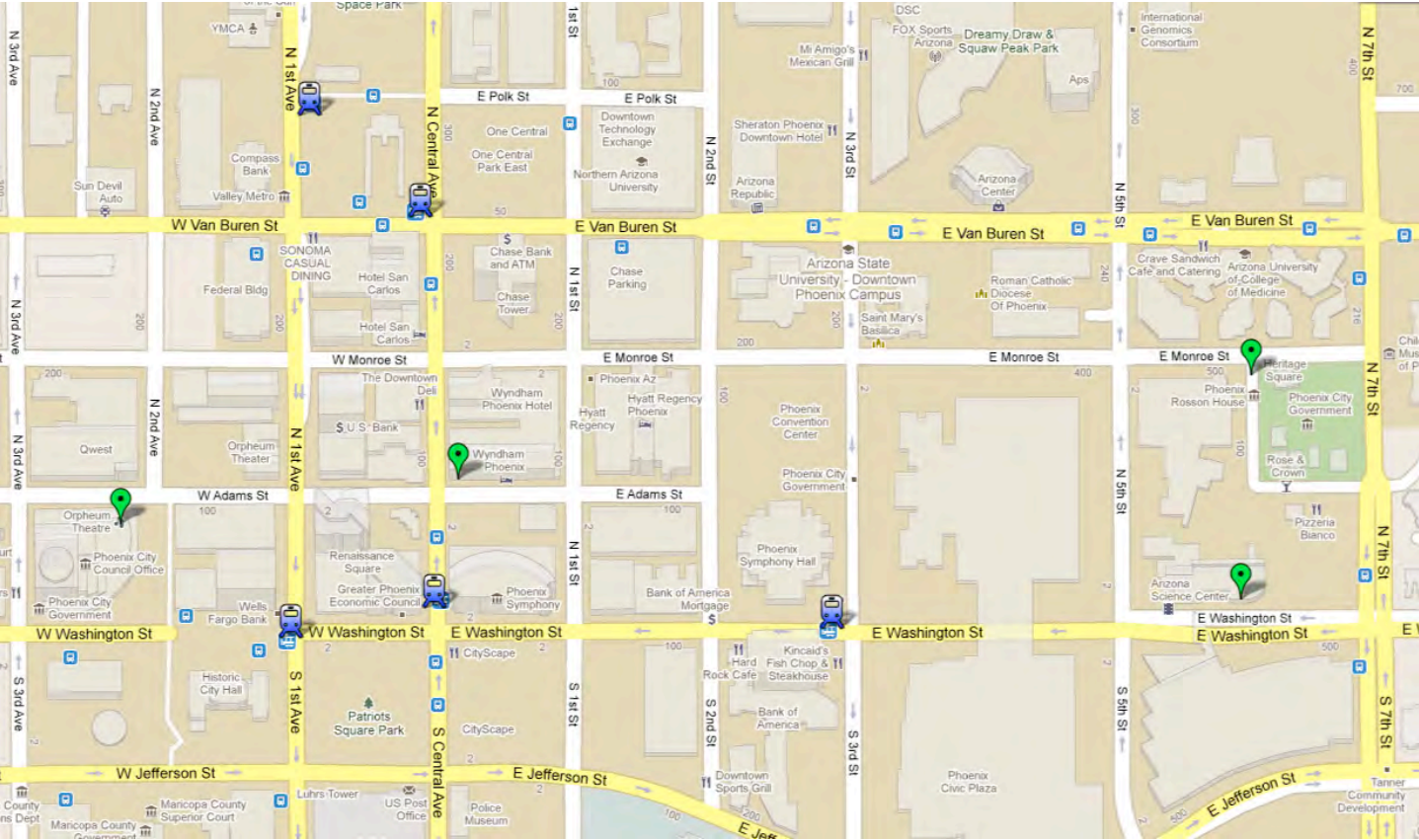
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