BEING Ecological "Bringing a community together through open space education"



COSA Conference, 2017

Ecology - The study of the interactions of organisms with their environment and with each other.

Lafayette Colorado is in East Boulder County Approximately 27,000 residents, 20k Caucasian, 5K Hispanic Fun Facts: Emerald Ash Borer has arrived

Lafayette has a ban on Neonicotinoids

Lafayette Open Space Education and Outreach Plan — Adopted by Open Space Advisory committee

- Public Component
- Schools
- Media Component
- Intra-governmental
- Private Sector

- Can Open Space programs help transform the communities they are a part of into healthy ecological systems?
- Premise as the caretakers of community lands, open space programs:
- are the holders of information and insights of how human beings relate to that land
 can convene the community in an "ecological manner" because open spaces are among the few places in a community that are most commonly held and commonly used.

- Inform citizens and students of the open space resources and amenities available to them.
- Generate support for open space protection, acquisition and maintenance.



Cornell Laboratory of Ornithology

 Encourage a conservation ethic that produces respect for open space and the natural world.

 Foster appreciation for local flora, fauna, and natural landscapes.

Different ways of doing this . . . What are your community identities?

Birders



History Buffs



MANY MORE!

Youth



Lafayette Open Space



Lafayette Parks



Boat rentals



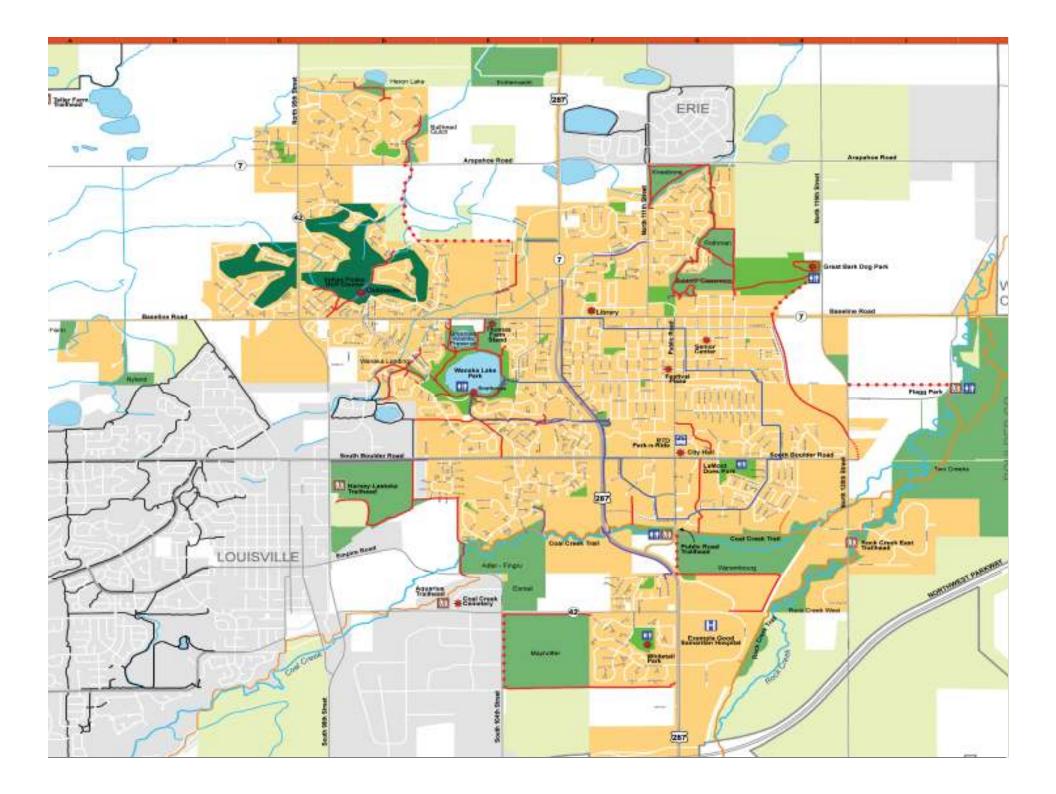
Playgrounds

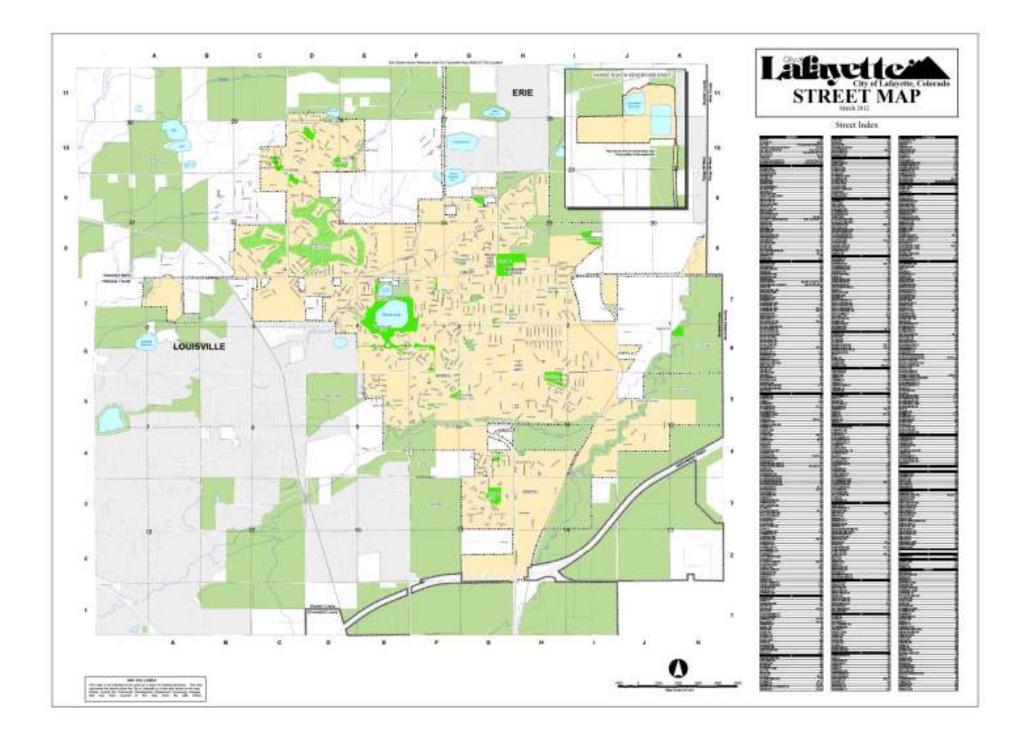




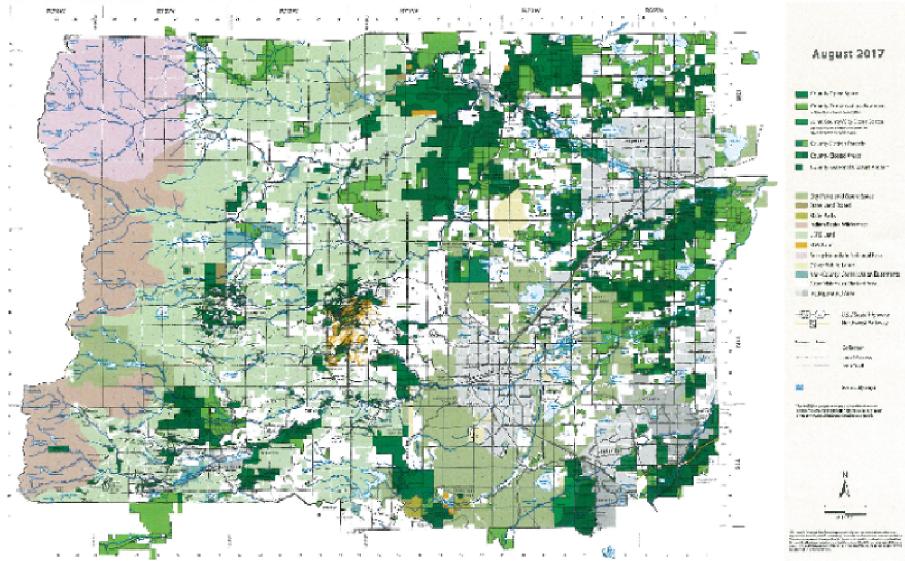
Frisbee Golf

Picnicking





Open Space in Boulder County



Parks & Open Space



A story of land and people



Swamps, 66 million years ago From "Ancient Denvers"





Waneka Lake power plant



Thomas house Edolph in Wagon

Waneka Lake, Thomas Farm on far right shore CIRCA1890s



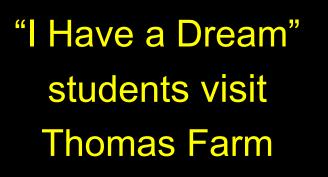
Thomas Farm is a community gathering place





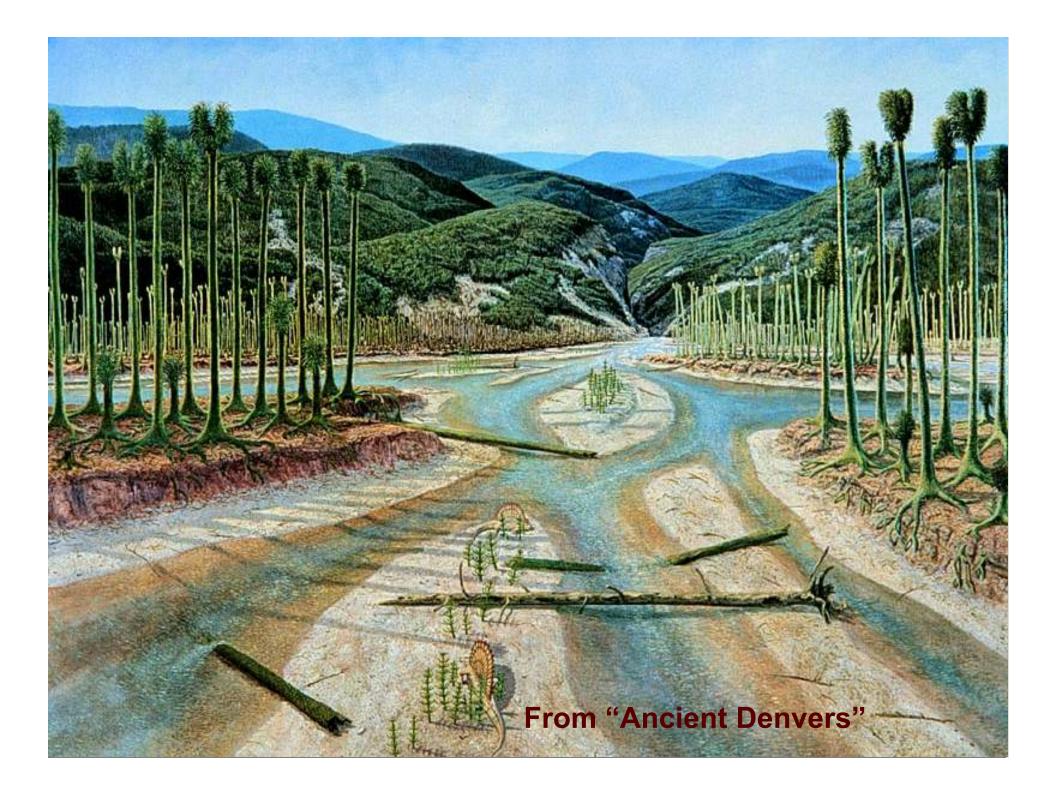


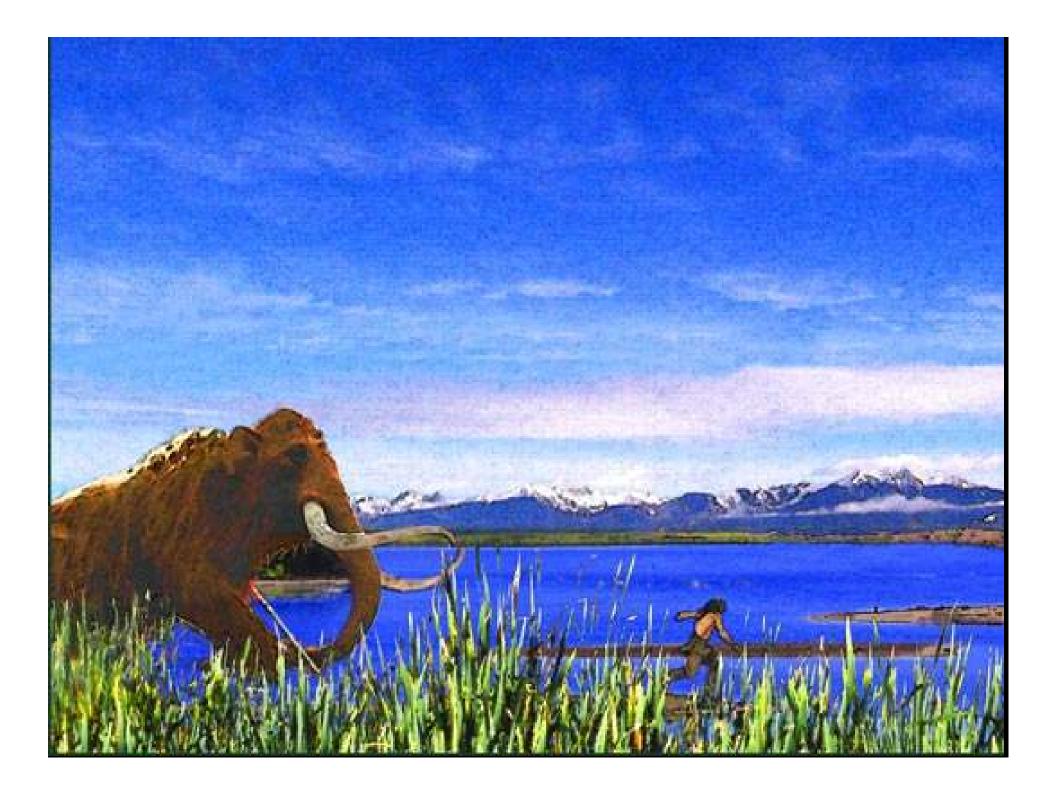






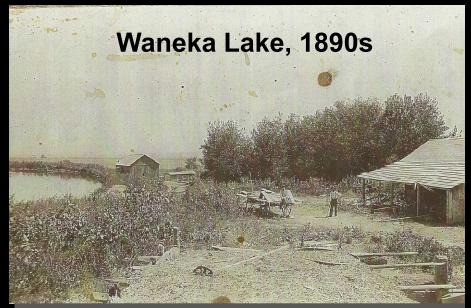




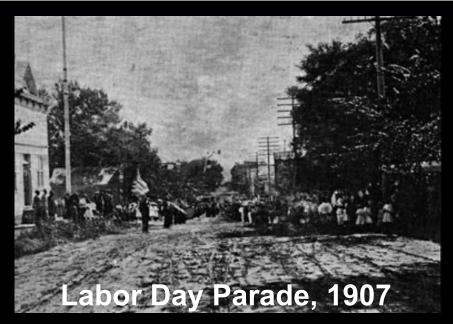








Courtesy of Chuck Waneka



From City of Lafayette Website



From City of Lafayette Website



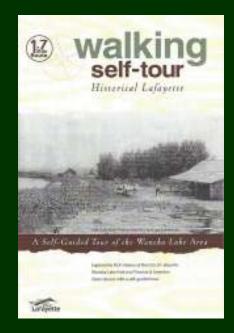
Public Library Mural, 2000

From City of Lafayette Website

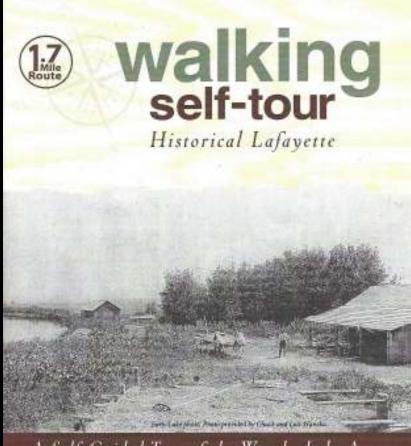
Observation deck at Greenlee Wildlife Preserve







Bringing the story of land and people alive



A Self-Guided Tour of the Wancha Lake Area

afavette

A self-guiding pamphlet

For a walk around Waneka Lake, Greenlee Wildlife Preserve Thomas Open Space

Explore the Rich History of the City of Laboutte Waneka Lake Park and Thomas & Greenlee Open Spaces with a self-guided tour.

Lafayette Historical Society

STOP 2

Energy

Substation-if you look past the cinder block building to the south (away from the lake), you will see an electrical substation. It is located just beyond a field full of the cinders from the power plant, like the ones you saw at the boathouse.

Substations are a critical part of the energy delivery system. They transform very high voltage electricity from a power plant to lower voltages used in homes and businesses. The substation near Waneka Lake is owned and operated by XCEL energy and distributes electricity to much of Lafayette. Our closest electrical generation plant is Valmont Power Plant, but a growing number of solar electric arrays including city-owned systems in Lafayette deliver electricity to our community.



Substation with "clinkern" (by-products of cast hurning) in foreground, Photo provided by Martin Ogle.

LEARN A PLANT

Grasses-the most common grass in this area is a non-native pasture grass called smooth brome grass.

Energy

STOP 3

Granary

In its relatively elevated position, it seems strange that a lake can occur here. Thanks to ditches and pumped water, Lafayette citizens can enjoy great scenery, fishing, boating and other benefits that Waneka Lake provides. The Goodhue ditch flows into Waneka Lake on the southwest side, just west of the playground. Water also comes from the Davidson Ditch on the north side of the lake, and is pumped in through a pipe from Lafayette's Goose Haven Reservoir complex.

The concrete structure with railings that you passed on the way to this stop was the housing for Waneka Lake's "lower valve" which controlled flow into the irrigation ditch that begins below the dam at this point.

Turn to the East and look below the dam to see an old wooden building in a grove of trees. This is a granary that was originally built in the Waneka Lake area in the late 1870s's. When this land was purchased by the power company in the early 1900s, the Wanekas moved this building to their farm (see photo on the next page) near what is now "Sprouts" on South Boulder Road. After Waneka Lake was developed as a park, the granary was moved back to this land and was placed on the Lafayette Register of Historic Properties In 2001. (Visit building before getting back on selfguided path if you wish). Proceed on path to the Northwest.

DID YOU KNOW? Milweed attracts monarch butterflies

LEARN A PLANT

Plants growing along focks by Take: Showy Milliwwed (notice see pods growing or on last year's plants). Tises growing near granety: peach-(eoved willows with narrow, slightly curied leaves.



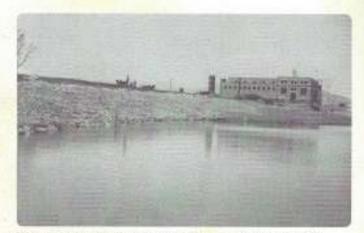
Gennary storage facility. Photo provided by the City of Lafayette.



Granary



The penerastic view from Watteke Lake teday



"Delts was a coal-fired power plant that used coal from a meriaty of sources including the "Plant diline" on the west side of the lake. Plants provided by Cluck and Lois Wareka.

A Story of People and Land

Introduction

Waneka Lake Park and the contiguous Greenlee Wildlife Preserve and Thomas Open Space have an amazing story to tell! This land has provided the food, water, energy and shelter that people have needed to live through the ages. In turn, human activities (including those of today's residents) have made this place what it is today.



Very little is known about the Indian history in this immediate location. Perhaps the earliest people visited the natural spring, the source of water for the original pond in this area. This pond was used for irrigation and ice-harvesting. It was owned by a string of early settlers that included Adolf Waneka and his son Henry, as well as Mary Miller, the founder of Lafayette.

One colorful figure in Lafayette's history draws the stories of Waneka Lake, Thomas Open Space and Greenlee Wildlife Preserve together through familial ties: Adolf and Anna Waneka's daughter, Anna. Because she was married to W.J. Thomas for many years (and had 9 children with him), she is found in historical accounts most often as Anna Thomas or Anna Waneka Thomas. But, after the death of W.J. Thomas, she married Frank Greenley (Greenlee) and that family's story became more closely identified with this area.

The lake and land were purchased in 1906 by the Northern Colorado Power Company. The lake was enlarged and an electric power station (one of the earliest in the Western U.S.) was built. According to an article in the Deriver Times, the powerplant was "the largest between Chicago and Ogden."

Adolf and Anna Wanzka c. 1870: Photos provided 1 Chack and Lots Waveka. City of Lafayette.



People and Land



The City of Lafayette offers an incredible art scene and the newest work will be located right on Thomas Open Space to honor the unique location the city holds along the 40th parallel latitude line.

40° North



DID YOLI KNOW? Thomas Open Space fails on the 40th parallel latitude line. Look for the sculpture by Geoffrey Newton Metalworks,

featuring a compass.





The illustrated design plan for Lafayette's new public artwork by Geoffrey Newton Metaboorks.

Surveying our Future



STOP 5

Thomas Open Space Farm

Thomas Open Space Farm is a Lafayette open space property. Set aside as agricultural land in 2002, it reflects a community value of preserving local agriculture. According to the Denver Post, Colorado lost 1.26 million acres of agricultural land between 1997 and 2002. This was mostly due to large acreage residential developments.



Thomas Open Space, Photo by Martin Ogle,

The City of Lafayette has partnered with a local organic farmer that operates the farm and sells a wide variety of organic vegetable crops at the on-site barn. The property is funded by the POST (Parks, Open Space and Trails) fund—0.25% of all purchases made in Lafayette.



Solar panels. Photo by Martin Ogle.

was installed in 2012 to supplement energy use at the barn and is part of Lafayette's contribution to the electric grid as discussed at stop #2. These solar panels remind us that ultimately, almost all energy we use

Notice the array of solar panels located south of the barn at Thomas Open Space. This 9 kilowatt system

comes from the sun. Agriculture, which fuels our bodies, derives its energy from the sun. All fossil fuels which came from plants that grew millions of years ago derived their energy initially from the sun.



From Thomas Open Space follow the trail back up to the main Waneka Lake path and proceed about 300-400 yards to turnoff for Greenice Wildlife Preserve on right.

Thomas Open Space

STOP 2

Energy

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Substation with "clinkern" (by-products of cast hurning) in foreground, Photo provided by Martin Ogle.

LEARN A PLANT

Grasses-the most common grass in this area is a non-native pasture grass called smooth brome grass.

Energy



Beauprez Barn Tour

Lafayette Historical Society

Local families





Another way we're bringing the story of land and people alive . . . and involving more partners.



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to many investments of PT HITE BALLAN

During

And Worgent Blackbords are common in the cartag wortlands treat to the Guideer Classroom . The colorful wing natches are apportant for the males in defending their nexting terrotories. One of the most abundant birds in North America, the Recliving's characteristic song is brant in wetlands across the country

Adult Female







Local woodworker Local media

Pioneer students working to school Lafayette on open space

By Joe Rubino, Camera Staff Writer

Boulder Camera, May 10, 2014



Schools (as partner, not just recipient of education)

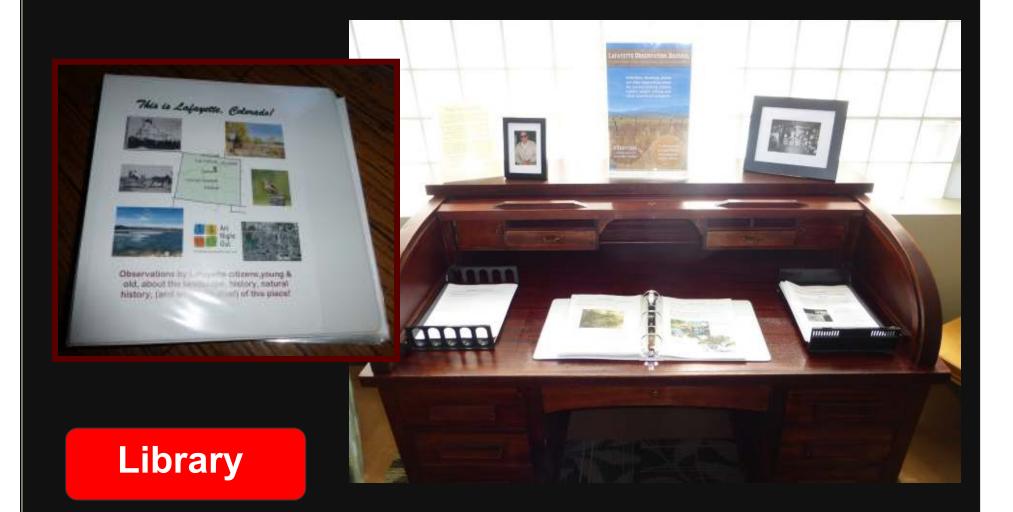
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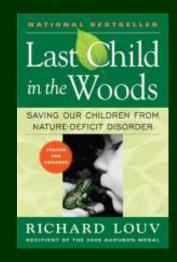




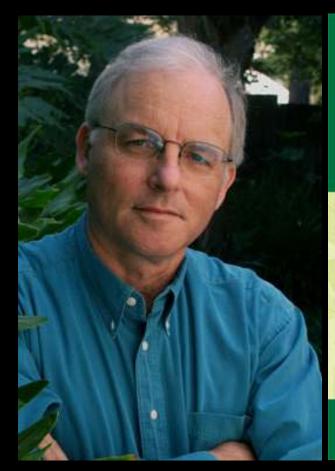
The "Lafayette Observation Journal Station" At Lafayette Public Library

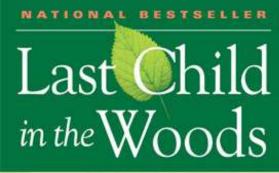


Breakout question Can and/or should Open Space agencies be community catalysts by bringing people together?



Expanding the story of land and people even more.





SAVING OUR CHILDREN FROM NATURE-DEFICIT DISORDER



RICHARD LOUV

Inviting students to learn about ecology outdoors in open space



Ryan Elementary School field trips on Coal Creek





September 7 Plant & Bird Walk along Coal Creek



"Lafayette Birds!" at Greenlee Wildlife Preserve







Celebrating Migratory Birds

Wild Wings **Boulder Co. Audubon Soc. Thorne Nature Experience** Laf. Youth Advisory Committee **Environment for the Americas JAX Outdoor Gear Empowerment Cntr. of E. County** Lafayette Historical Society **American Birding Association Broomfield Open Space Broomfield Bird Club** Lafayette Rec Center **Parent Engagement Network**



Nature Kids Jovenes De La Naturaleza

LAFAYETTE

GRANT PROPOSAL for GOCO INSPIRE INITIATIVE

Presented by:



GoCo Partners (26)







... but also ...



"21st Century Story

Connecting environmental literacy with ALL careers BY THE AUTHOR OF THE INTERNATIONAL BESTSELLER Lost Child in the Woods: Seving Our Children from Nature-Deficit Disorder RICHARD LOUV

The NATURE PRINCIPLE

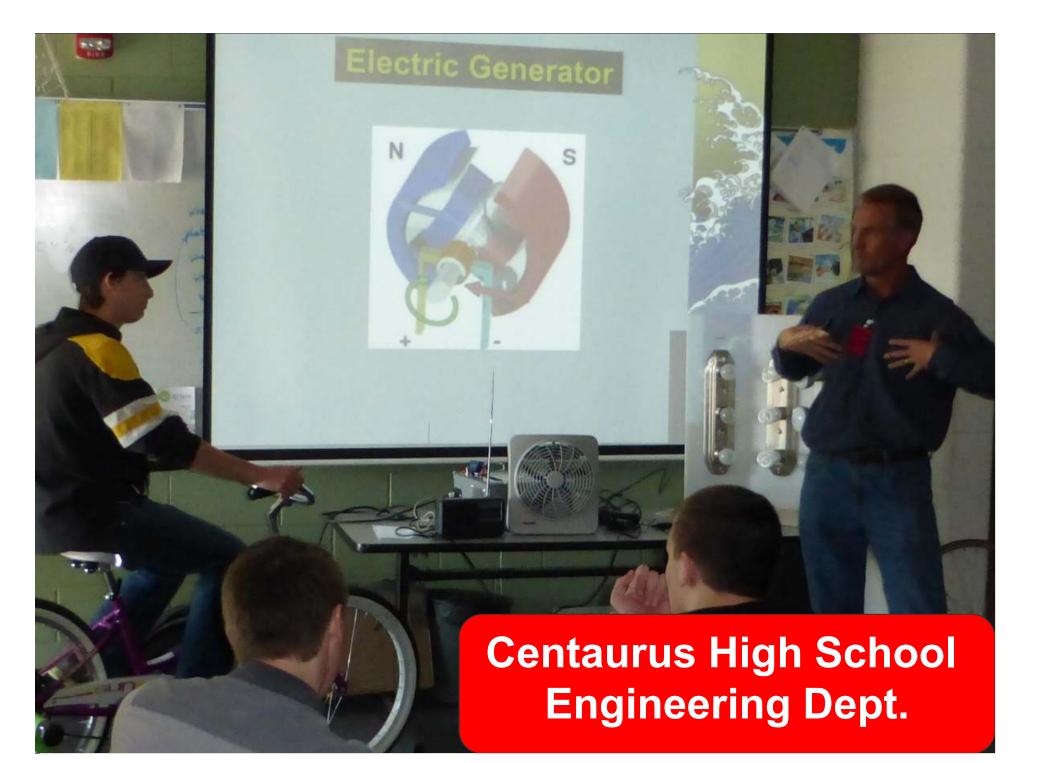
Reconnecting with Life in a Virtual Age

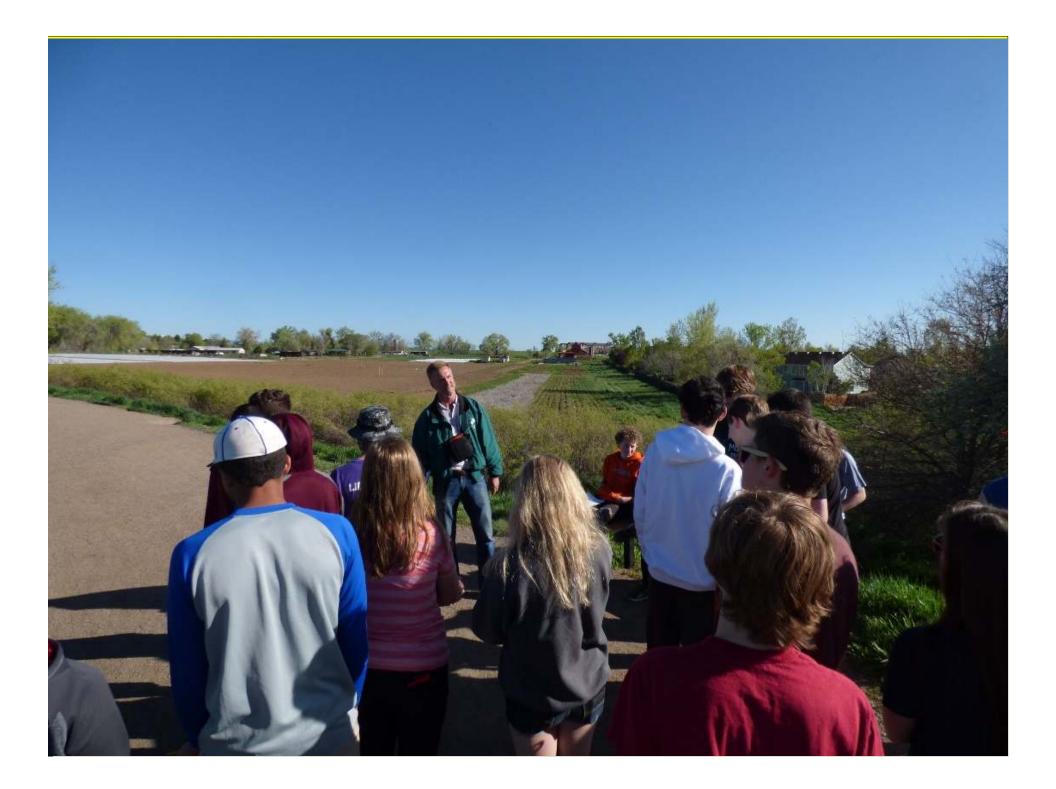
"There is great argoncy to this work ... This book makes after sense." - LOS ANGELES TIMES

low with an updated feature on the New Nature Movement









Lafayette's annual Peach Festival

Lafayette Energy Sustainability Advisory Committee

afayette

Maria

te Energy ability y Committee

ID3H

Restoration Projects can be fun and educational





Lafayette Youth Advisory Committee

Lafayette Youth Advisory Committee

> "25% of the population... 100% of the future."

www.cityoflafayette.com

"Making a Living and a Life;

BY THE AUTHOR OF THE INTERNATIONAL BESTSELLER Last Child in the Woods: Saving Our Children from Nature-Deficit Disorder The The NATURE AND LOUY

Reconnecting with Life in a Virtual Age

"There is great urgency to this work . . . This book makes utter sense." —LOS ANGELES TIMES

Now with an updated feature on the New Nature Movement

"Making a Living and a Life; A New View of "Environmental Careers"

A program for middle school and high school students and parents. Wednesday, Nov. 8, 7 p.m., E. Simpson Coffee Co.



Local businesses

Breakout question

How can Open Space agencies provide inspiration, information and opportunity for involving young people in sustainability?

(And, how does / can this involve many parts of the community?)



Some final thoughts on "being ecological" by blending the story of land and people through Open Space.



Janine Benyus

Biomimicry The conscious emulation of nature's genius





Eastgate Centre in Zimbabwe Mimics the self-cooling mounds of African termites!"



Western Harvester Ant



"Quartz rocks increases the temperature in the mound by an average of 2.5°F . . .

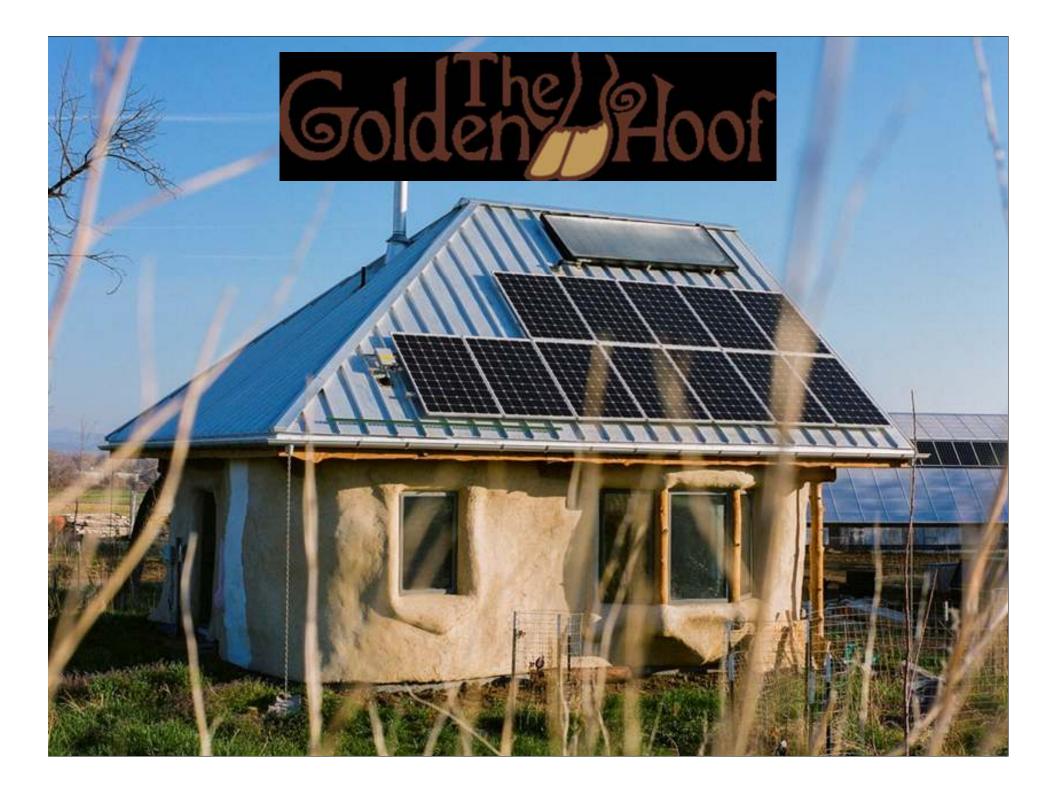
"The quartz rocks also increase the time that moisture is retained, by approximately 66 percent.

"... it is clear that trapping moisture is an important feature of the quartz mound design, enabling the ant to maintain a viable moisture level in their habitats in this desert environment."



Pioneer Sod House, Wheat Ridge, Colorado on the National Register of Historic Places

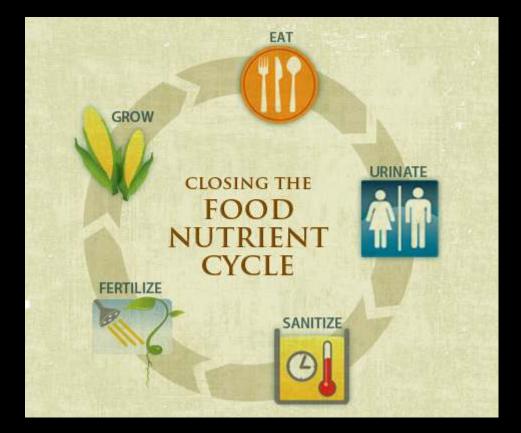
https://www.youtube.com/watch?v=38HAkHvWdI4



RICH Earth Institute

FERTILIZER FROM URINE Clean Rivers. Sustainable Farms.

Sand & Barry V



Rich Earth Institute, Brattleboro, Vermont

Public urinals in Amsterdam









Lafayette Open Space



787 N. 95th St. Lafayette, CO 80026 303-661-1306