Accessible Trail & Cultural History Experience: a Collaborative Design Process

Presentation by
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Project Goals

▪ Identify engaging methods for people with hearing or vision loss to learn about the historic Anza Trail

▪ Work together to develop new design solutions to create an accessible & engaging storytelling experience
Collaborative Project
Anza Trail at Santa Cruz River
Tucson, Arizona
The site
THE ANZA EXPEDITION 1775-1776

In 1776, while American patriots fought for their independence from England, Spanish Lt. Colonel Juan Bautista de Anza led more than 240 men, women, and children some 1,800 miles to establish a settlement at San Francisco Bay.

These families were the first colonists to come overland across the frontier of New Spain into present-day California.

Al mismo tiempo que en 1776 los patriotas angloamericanos iniciaban la lucha por su independencia de Inglaterra, el teniente coronel español Juan Bautista de Anza conoció a unas 240 colonos más de 2900 kilómetros para establecerse en Alta California.

Era la primera vez que se utilizaba la ruta terrestre de Nueva España para trazar pobladores, en este caso los que habían de establecer el pueblo de San Francisco.

www.nps.gov/juba | www.anzahistorictrail.org | @AnzaTrailNPS
Place-based Learning
Infrastructure needs
Introductions
Facilitated Multi-Year Design Process
Story Introduction Period

Don Kucera, interpreter with Anza Trail Coalition
Identifying what doesn’t work & modifying
“Hands-on Experience Students”

Design Considerations for: **blind and visually-impaired** and **deaf and hard-of-hearing**

Users who are blind or visually-impaired:
- Tactile manipulatives - interactive elements
- Using senses- smell, taste, food/plants, music!
- Reverse contrast
- Audio Description
- QR codes with YouTube audio, “audio description”

Users who are Deaf or hard-of-hearing:
- Tactile manipulatives - interactive elements
- Video of ASL with closed-captioning text
- Images, symbols, colors, amplification
Tactile
Multisensory

smell, taste, hear, touch, whole body experiences
Reverse Contrast
Audio Description
Wayfinding Elements
Tactile Manipulatives
Amplification
Images, symbols, colors
Graduate Students of Landscape Architecture

1st Year Design Studio
Simulation experience with sleep masks -

Guide and white cane technique
MLA Student Graphics

Tactile wayfinding & path layouts

Utilization of shade
Features for Tactile Storytelling
Multi-sensory Hands-on Public Art
Storytelling Vegetation for Smelling & Tasting
Interactive Whole Body Musical Sculptures
QR Codes Along Path Link to Audio-Visual Materials
“Braille Trail” for Wayfinding
High School 10-wk Internship

Youth Action Corps 2019!
Challenge:

As a member of a Design Team, engage with others through a research and design process to develop a thoughtful “Universally-designed” interpretive experience to tell stories related to that of the Anza Expedition and present-day Anza Trail. You will design interactive artistic elements that meet needs of the partners and all who use the site.
Ana María Josefa Soto

I am a 35-year-old española. My husband’s name is Juan Francisco Bernal, and he is 38. We have seven children. My husband and the older boys had been working on Rancho El Tule near Villa de Sinaloa, when Commander Anza came to our town asking for recruits.

There will be a large herd of cattle and horses on the expedition, and my boys will be very useful in helping drive the herds. I think Alta California will have great opportunity for our sons.

There are the boys hope to enlist in the army when they are old enough.
Design Studio Meetings
Testing Wayfinding Experience
Model-making & Testing
Ideas for Sound & Amplification

Cochlear implant-compatible solar powered model

Electronic .mp3 recordings

Hand-crank Dynamo electric generator model also - 3 volts to power
Public Presentation at Week 10
High School Students meet LAR Grad Students
Interpretive Bike Rack
Outdoor Classroom and Path
Clay Tile Making = Hands-on Immersion
Created objects by hand that will be installed on the site.
Juan Bautista de Anza
National Historic Trail

Junior Rangers Virtual Expedition

Select a member of the Anza Expedition whose story you would like to follow. There are six to choose from:

Isabel Berreyesa, a young woman

Antonio Quiterio Aceves, a father

Juana María Cárdenas, a mother

My name is Juana María Cárdenas, and I am 23 years old. My husband’s name is Felipe Santiago Tapia and he is 39 years old. I have only been married to him for a short time. His first wife, Filomena Hernández, died, leaving him with eight children to care for.

Since we have been married, we have had a little boy, Victorio who is now 6 months old. The other sons of my husband are: Bartolomé 11 years old, Juan José 9, Christobál 8 and Francisco 7. His daughters are: Rosa 13, Antonia 12, Manuela 6 and Isadora 5.

Last spring when Commander Anza came to Culiacán and set up his recruiting table in the plaza the proclamation said they were particularly interested in large families. With my husband’s eight children from his first wife and our new baby, my husband was very welcome.

Select Me >
Student reading her reflections after walking the Historic Anza Trail.
Partner Roles

- **Anza Society**: Proposed project, support-building, additional partnerships, fund-raising
- **Nat’l Park Service**: Project coordination! $, liaison, interpretive presentations, materials, guidance
- **ASDB**: design implications, design development, review, prototypes, testing, time & energy
- **University & Ironwood Tree**: develop, create, design prototypes, models, thoughtful audio narratives
- **Neighborhood**: Artistic talent, ideas, review, contributions, in-kind constructing