## Connecting All Texans to Conservation Through Meaningful, Engaging Interpretation

Presented by Craig Hensley, TNT Biologist



"Interpretation should instill in people the ability, and the desire, to sense the beauty in their surroundings — to provide spiritual uplift and to encourage resource preservation."



-Beck and Cable

So, what is...

INTERPRETATION?



#### At its best, interpretation:

- 1. connects the person **emotionally** to that which is being interpreted...
- 2. uses those emotional connections to create caring for what is being interpreted...
- 3. through caring, creates an advocate for what is being interpreted

Interpretation invites us on a path to explore the world we know but may not know about; it helps us remove our blinders and, in a sense, discover ourselves as we discover the wonders around us.

I am an Old Time Country Lane Now I have been Officially Vacated and Closed (I never liked automobiles anyway) I invite you to walk – as folks have walked for generations and be friendly with my trees my flowers and my wild creatures

#### Inhabitants of the Meadow



predator and prey. The meadow vole, which feeds on plants and insects, is prey for both the red fox and the red-tailed hawk. The hawk, a year round resident, is a carrivore, subsisting on small rodents, rabbits and snakes. The fox is an omnivore, eating small animals insects fruits, berries and grasses.



in the Nature Center's indoor displays.



Central America to breed. One is the Common vellowthroat, which nests in moist, grassy areas and feeds on the insects and spiders. Listen for its distinctive call, Wichity, wichity, wishity.



skeletons, also live in the meadow. The digbane beete feeds on dogbane and inweed plants. The predatory goldenrod crab spider waits for unsuspecting insects to cross its path.

larvae through the winter.

on others for survival, a type of symbiosis Goldenrod, brightening the meadow in survivoe and fall, plays host to the parasitic goldenrod. gall fly, which lays it eggs in the plant's stem After hatching, the fly's larvae eat the stem secreting a chemical that causes the gall to form. The gall then provides shelter for the

#### WALTING ROOM AND THE "WYE" at the Michigan Military Academy





To change directions, trolleys had to turn around.

At this location, at the back of what had been the parade grounds



YOUAUTOKNOW

of the Michigan Military Academy, the Detroit United Railway (DUR) built a "wye." This Y-shaped track allowed trolley cars to turn to go in the opposite direction along the trolley track that paralleled the Grand Trunk Railroad track. Nestled in the undergrowth near here, barely visible, is a trace of the "wye," a concrete basin where maintenance workers climbed under the trolleys for inspections and repairs. Near the "wye" was a DUR waiting room to shelter patrons.









#### A Story Written In Wood

redwood tree's size is Ano guide for estimating its age because some grow & faster than others.

The rate of growth is strongly influenced by competition for light, nutrients and water. Trees growing in the open, or in "holes" in the forest, can grow very rapidly.

If the trees stand close L together, their roots and foliage overlap one another. There is strength in this common association, but as must share the limited moisture, nutrients and sunlight - growth will be slower

Ithough this forest may Aseem peaceful, a silent, centuries-old struggle is taking place here - one whose history is recorded in annual rings of wood.

edwoods so successfully Adominate their environment that few other trees can gain a foothold - much less compete.

Static Interpretation: Panels/Signs

#### Life of a Dead Tree



When a tree dies, its "life" doesn't. Insects move in providing food for woodpeckers. They, chickadees and bluebirds use it for nest sites. Eventually the tree will decompose, providing nutrients for new plants. Keep your eyes open as you walk through this area for the life in and on our dead trees.









85 times their weight
Eastern Hercules Beetle are easily to Eastern Hercules Beetle are easily the heaviest insect in the Hill Country. These insects are surprisingly strong and it's been claimed they can lift and carry 85 times their body mass.

Centipede



The Red Headed Centipede is the largest centipede in the U.S., everaging 6.5 inches... but they can be much LARGER.

They are venomous but not

threatening to humans unless handled.

**WALKING STICKS** 

sometimes called Ghost Sticks, are the longest insects in North America.

up to 10 inches long

These long **BROWN and GREEN** 

STICKS have been around

for at least 290 million years.



Static Interpretation: **Exhibits** 









#### Why We Engage in Interpretation

- To deliver an organization's mission and enhance visitor experiences
- To share the story of the land and its people, to draw connections between this history, both cultural and natural, and the visitor – to help "root people to where they live\*"
- To welcome all visitors to those spaces where they can create their own connections in order that they may come to join others in developing care for, and stewardship of, those resources

#### **Essential Qualities of Interpretation**

- Thematic
- Organized
- Relevant
- Enjoyable
- Accurate
- Engaging
- Sensory



#### Successful Interpretation

- Welcomes everyone
- Presents accurate and sciencebased information; stays away from personal opinions
- Isn't afraid of complexity
- Treats the audience as intelligent – including children
- Encourages dialogue
- Is in tune with audience needs whether basic comfort or learning styles



J. W. Pieper, AAMN

#### Interpretation vs. Teaching



Interpretation involves the sharing of information in a manner that invites audience engagement and wonder, leading to self-discovery of personal meaning and connection to the resource being explored



Teaching most often involves the sharing of facts for future recall – the learning and recitation of those facts is the objective

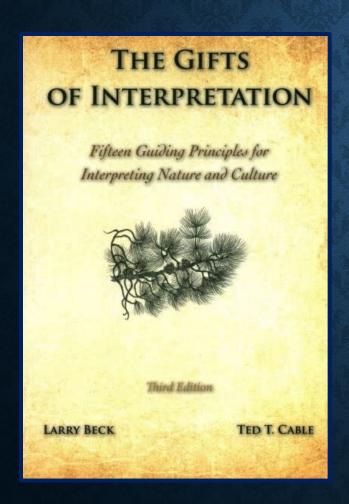
- While factual information is important, it is not the end game of interpretation; it often is for teaching
- The greater goal of interpretation is to communicate a message that answers the question "so what?"

#### **NAI** Definition of Interpretation



"Interpretation is a missionbased communication process that forges emotional and intellectual connections between the interests of the audience and the meanings inherent in the resource."

#### **Beck & Cable's Definition of Interpretation**



"An informational and inspirational process designed to enhance understanding, appreciation, and protection of our cultural and natural legacy."

## David Larsen's\* Definition of Interpretation

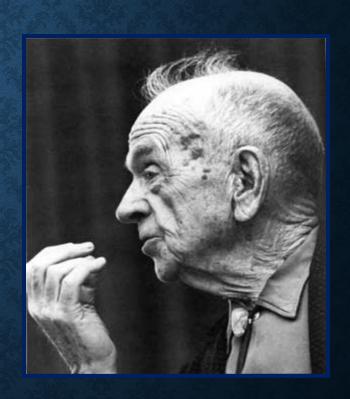


"How to connect hearts and minds to places, objects, and other resources."

\*NPS Former Training Manager for Interpretation

### Freeman Tilden's Definition of Interpretation

"Interpretation is an educational activity which aims to reveal meanings and relationships through the use of original objects, by firsthand experience, and by illustrative media, rather than simply to communicate factual information."



# Tilden's Six Principles of Interpretation

#### **PRINCIPLE ONE**

Any interpretation that does not somehow relate what is being displayed or described to something within the personality or experience of the visitor will be sterile.



#### **PRINCIPLE TWO**

Information, as such, is not interpretation. Interpretation is

revelation based upon information.

When I Heard the Learn'd Astronomer by Walt Whitman

When I heard the learn'd astronomer, when the proofs, the figures, where ranged in columns before me, when I was shown the charts and diagrams, to add, divide, and measure them,

When I sitting heard the astronomer where he lectured with much applause in the lecture room, How soon unaccountable I became tired and sick,

Till rising and gliding out I wandered off by myself, In the mystical moist night air, and from time to time, Looked up in perfect silence at the stars.

#### **PRINCIPLE THREE**

Interpretation is an art, which combines many arts, whether the materials presented are scientific, historical, or architectural. Any art is to some degree teachable.

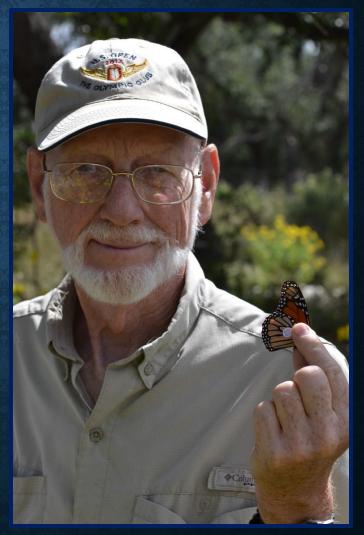


"A nature guide is an artist"... Enos Mills

#### **PRINCIPLE FOUR**

The chief aim of interpretation is not instruction, but provocation.





Laird Ingham, LMN

**Guadalupe Chapter MNs** 

#### **PRINCIPLE FIVE**

Interpretation should aim to present a whole rather than a part and must address itself to the whole man rather than any phase.



1950s as it provides suitable temperature and

Department (TPWD) obtained the property in

humidity. In 1991, Texas Parks and Wildlife

couldn't pull loads up the steep grade, an

ative needed to be found. The solution

ultra tunnel, and by the end of 1913

#### **PRINCIPLE SIX**

Interpretation addressed to children should not be a dilution of the presentation to adults,

but should follow a

fundamentally

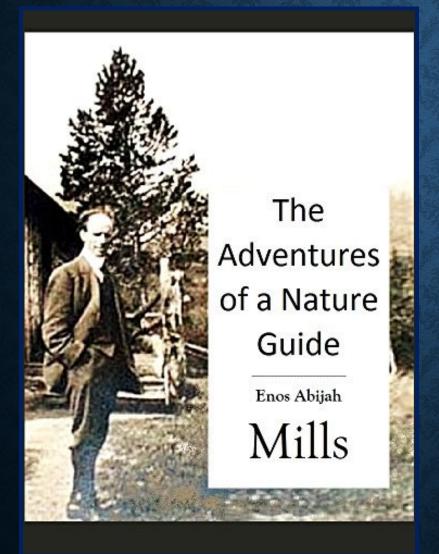
different approach.



"If I had influence with the good fairy who is supposed to preside over the christening of all children I should ask that her gift to each child in the world be a sense of wonder so indestructible that it would last throughout life..."

-Rachel Carson

#### The Interpreter



"The interpreter arouses interest by dealing in big principles – not with detached and colorless information. He creates more permanent interest in the biography of a single tree than in the naming of many trees."

"The best interpretation comes from the heart and is laced with imagination, creativity, inspiration, revelation, and personal commitment."



"Before you can inspire with emotion, you must be swamped with it yourself. Before you can move their tears, your own must flow. To convince them, you must yourself believe."

-Winston Churchill

#### What Makes an Interpreter

#### You Should:

- Being organized and ready to present
- Having a strong sense of wonder
- Being genuine
- Having a passion for, and knowledge of, the resource
- Being a weaver of stories, an artist
- Being a life-long learner about nature, about interpretation, about people
- In a word...caring



#### What Makes an Interpreter

#### For Your Audience:

- Being on-time
- Being welcoming
- Addressing basic comfort of the audience
- Understanding interests of the audience
- Being adaptable teachable moments, weather changes
- Being open to changing your program objectives as your audience needs change
- Having a passion for people of all backgrounds and experiences and an openness to learning about them and their experiences
- Thanking your audience
- Being open to accepting thanks



#### Interpreters are...





Influencers...



#### Let's Get Practical...

- You don't have to know everything and you won't and don't, anyway, i.e.
  it is okay to say "I don't know"
- That said, study, but mostly, spend time in and with the resource books are great but the resource is the real place for the most learning
- Expect the unexpected i.e. use "teachable moments" when they appear
- By the fact you are interested and sharing this interest puts you ahead of your audience – don't freak out
- Depending upon your topic in the field, take a field guide or whatever other supplement that helps
- Walk the path before you walk the path with your audience
- Be genuinely amazed





#### Every age matters





Engage with them



Be in the moment with them

#### Explore with them outside



on

their level

#### **Doing** matters





Hands on...Hands in

"If facts are the seeds that later produce knowledge and wisdom, then the emotions and impressions of the senses are the fertile soil in which the seeds must grow." -- Rachel Carson

Cliff Hendrick



Talk with them, not at them

#### Provide the tools for self-discovery



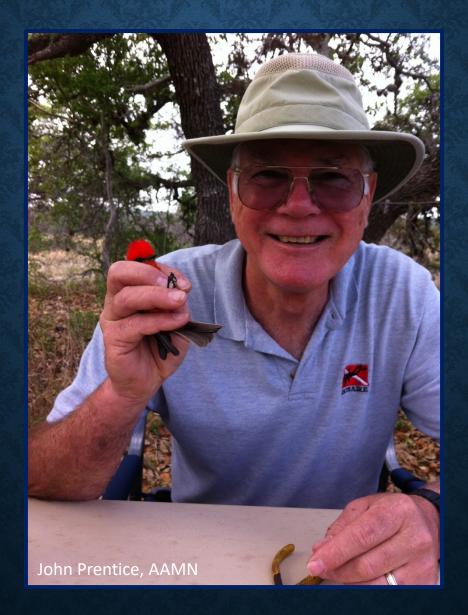


Let them figure it out – and they will!

# Engage their parents, too



## Rediscover Your Sense of Wonder



Have FUN!

#### The Gift of Passion

Passion is the essential ingredient for powerful and effective interpretation – passion for the resource and for those people who come to be inspired by the same.

- Beck and Cable



Cathy Downs, HCMN

### The Priceless Ingredient

If you love the thing you interpret, and love the people who come to enjoy it, you need commit nothing to memory. For, if you love the thing, you not only have taken the pains to understand it to the limit of your capacity, but you also feel its special beauty in the general richness of life's beauty."

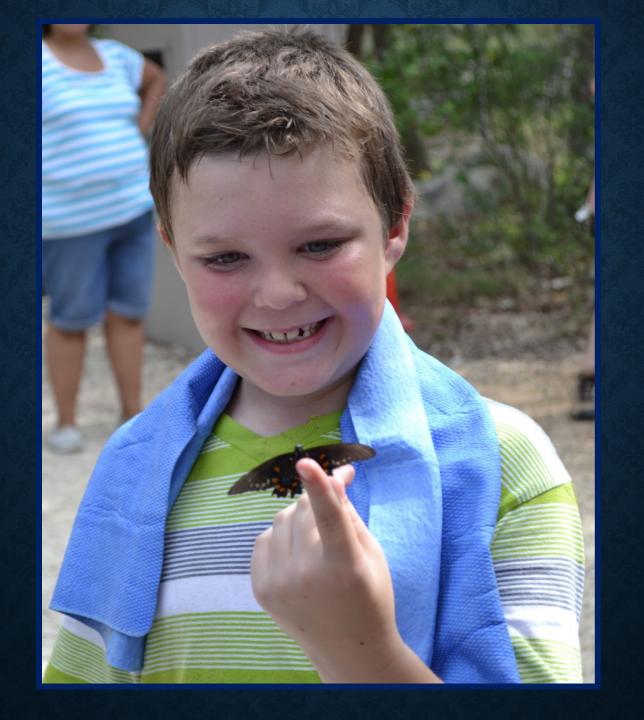
"... the six principles with which I began this book may be after all...a single principle.

If this should be so, I feel certain that the single principle must be . . . love."

- Freeman Tilden



# So what? Does any of this really matter?















Kenlynn Volz



"Back in 2006 or thereabouts, we attended a bird-banding event run by you at the Martha Lafite Thompson Nature Sanctuary in Liberty, MO. My daughter was only 6 or 7 years old at the time. You allowed her to "release" a goldfinch after it had been banded. I thought I would give you an update on what has happened since that day."

"When we trace back my daughter's interest in birds, (more like an obsession now) we are pretty sure it began with that first bird-banding event with you. Birds have been her passion ever since!"

- Shari Mutchler





### So, yes, I KNOW it matters

This means what you do as Master Naturalists matters, each and every time.

You are an influencer for the environment, a changer of lives and a conduit between the natural world and society.

This is a powerful space you occupy – share your passion and wield it with care and compassion.

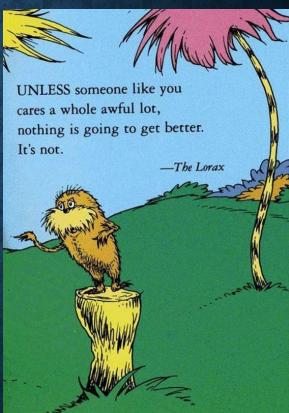
You may never know when your passion for, and commitment to, the natural world will indeed make a difference in the life of another person, but I invite you, I implore you, to take the chance – I believe – I know – it will.

### Challenges for Interpretation and Interpreters

- We must find more diversity in our ranks both professionally and via volunteer programs like TMNs – we must look more like the diverse communities of which we are a part
- We must remember that people enjoy the outdoors differently thus we must consider that how we prefer to enjoy the outdoors may be different than others – and thus we must recognize, accept, and if necessary, adapt to those differences
- We must find ways to engage those audiences that don't already spend time in the outdoors – we must consider taking our work to them, to their spaces
- Yet, we must not act as nature "saviors" that is, we must work with communities, not dictate to them what we think they need, but instead have conversations to find out what their needs are and offer to lend a hand
- In the case of children, we must find ways to get away from one-and-done field trips; we need to extend field experiences through multiple grade levels over time, and leverage the experiences of children to engage families, and if possible, whole neighborhoods or communities

## Lend Your Hand, Create a Spark





### To learn more about Interpretation:

National Association for Interpretation: <a href="https://www.interpnet.com/">https://www.interpnet.com/</a>

North American Association for Interpretation: <a href="https://naaee.org/">https://naaee.org/</a>

Interpreting Our Heritage by Freeman Tilden

Interpreting for Park Visitors by William J. Lewis

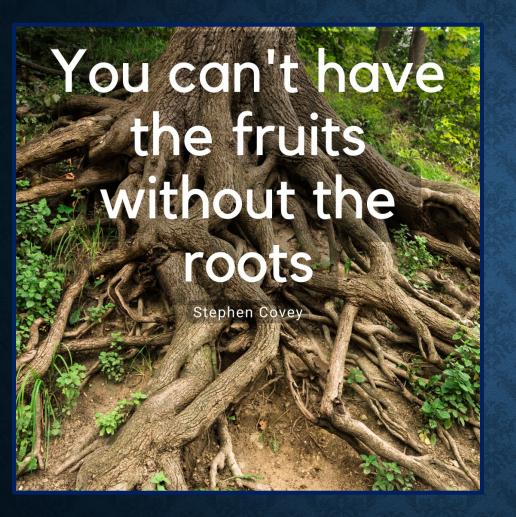
Interpretation: Making a Difference on Purpose by Sam Ham

The Gifts of Interpretation: Fifteen Guiding Principles for Interpreting Nature and Culture by Larry Beck and Ted T. Cable

Beyond EcoPhobia: Reclaiming the Heart in Nature Education by David Sobel

Reaching for Connections Vols 1 & 2 by David W. Stokes

Sharing Nature with Children (and volume 2) by Joseph Cornell



Thank you

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