Tree Summit 2022

"Today we have gathered and when we look upon the faces around us we see that the cycles of life continue. We have been given the duty to live in balance and harmony with each other and all living things. So now let us bring our minds together as one as we give greetings and thanks to each other as people know our minds are one."

Robin Wall Kimmerer





Renewing Our Relationship With Our Urban Forest

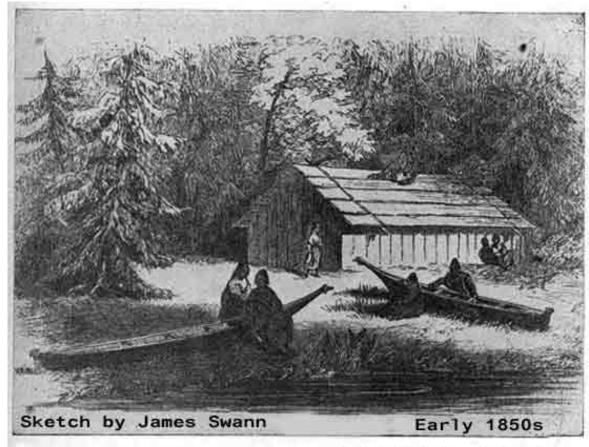
Stephanie Wagner
Oswego Lake Watershed Council

A Healthy Urban Ecosystem



The First People





A gabled house; river canoes on the bank.

(in Underhill's "Indians...Northwest")

Land Acknowledgement



Manifest Destiny

Resources are to be used by white American individuals to promote capitalism throughout the county.



A Land Ethic

A land ethic, then, reflects the existence of an ecological conscience, and this in turn reflects a conviction of individual responsibility for the health of land.



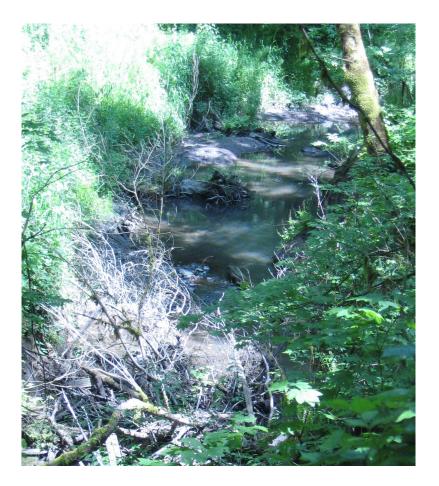
Aldo Leopold

An Environmental Ethic

Only within the moment of time represented by the present century has one species -- man -acquired significant power to alter the nature of his world.

Rachel Carson





Man as a Part of Nature

Knowing that you love the earth changes you, activates you to defend and protect and celebrate.

Robin Wall Kimmerer

Community Mindset:

Understanding and working with natural systems to protect and enhance our natural resources





A Sustainability Lens for Natural Resources

How will these actions effect:

Soil healthy and biodiversity of microorganisms

Air quality

Water quality - stormwater infiltration and water storage

Terrestrial biodiversity - both plants and animals

Human health and safety

Climate



Nature Based Solutions

Landscaping - summer drought resistant plants

Promote biodiversity

Protect existing trees and other biomass (including impact from storm damage)

Enhance soil functionality

Reduce/Eliminate use of pesticides and artificial fertilizers

Integrated Pest Management Plan



Natural Infrastructure

Water harvesting

Stormwater management - bioswales and rain gardens

Permeable surfaces

Landscaping to maximize natural cooling and passive solar warming and reduce wildfire risk

Building design and orientation to maximize passive solar heating and cooling



Roadside vegetation in the form of bioswales can reduce runoff from impervious surfaces. The key factor is degree of permeability of the soil which can be enhanced through the selection of different vegetation.



Street vegetation can help to provide shade, as well as a greater sense of wellbeing for residents in urban areas. It can also be used to create green corridors to improve





Direct application of plants to the building envelope. Green walls (vine coverage or specially designed modules), and green roofs can contribute to building thermoregulation.



Green Infrastructure.

The integration of plants in the urban environment



Courtyards have been part of vernacular architecture in tropical climates for centuries. When combined with passive ventilation systems they provide cooler air at ground level.



Street trees contribute to the fixation of CO2 and remediation of air pollution. When designed correctly they also provide shading and run-off reduction benefits. Different species are more suited to these application than others As we move forward we need to remember to trust nature and embrace the complexity of our urban ecosystem.



Reciprocity



Knowing that you love the earth changes you, activates you to defend and protect and celebrate.

But when you feel that the earth loves you in return, that feeling transforms the relationship from a one-way street into a sacred bond.

Robin Wall Kimmerer Citizen Potawatomi Nation



Discussion Question: How do you know "the earth loves you back"?

