

MY YEAR IN WEBINARS 2020

My year in webinars

December 2020

UN Climate Change Dialogues

"Making peace with nature is the defining task of the 21st century. It must be the top priority for everyone everywhere." -- UN Secretary General Antonio Guterres.

World cost US\$150bn

"Human activities are at the root of our descent toward chaos. But that means human action can help solve it."

This is an epic policy test but ultimately this is a MORAL test.

Guterres report includes hopeful trends

3 imperatives:

- carbon neutral, net zero in next 30 years
- align global finance
- adaptation to protect the world, especially the most vulnerable

GOALS

Carbon-neutral by 2050

Cut global emissions 45% by 2030

Need to DECREASE 6% per year; instead we are INCREASING fossil production 2% per year

We must do our part as consumers, producers, investors
But human costs of energy transition is critical. Need UBI
etc to protect most vulnerable.

Focus on reform of shipping, aviation

Companies need to adjust their business models and
investors need to ask questions on resilience of models.

It's a matter of

Equity

Solidarity

Fairness

Enlightened self-interest

We need breakthrough on adaptation and resilience.

Adaptation has been the forgotten stepchild til now, of
climate finance.

The race to resilience is as important as the race to net
zero.

We must use 2021 to address of climate planetary
emergency

"The blue economy" -- goods and services from the
ocean

Indigenous knowledge distilled over millennia can help
lead the way. Land managed by indigenous people is
declining less rapidly than elsewhere.

"I have detailed an emergency but I also see hope." --

Ends at 33:32

(Virtual) audience Q&A

"State of the Planet" Address: Making Peace with Nature

"Power is normally not given, power is taken. You young people need to take power."

2/5/2021

FNPS Miami

How To Measure the Performance of Public Landscapes
Case Studies from Miami-Dade

Ebru Ozer, Associate Professor, Florida International
University

Department of Landscape Architecture -- Environmental
and Urban Design

This webinar which I attended awhile back was
spectacular. Great case studies of native landscaping in
public urban spaces.

<https://youtu.be/s5agk1AMUQc>

Thank you Florida Native Plant Society for your
consistently excellent Lunch & Learn programs.

AIRY

- parking garage open-sided
- evidence-based

- >1m gal stormwater
- 338% increase in plant life
- Everglades native vegetation in urban area
- giant movie screen shows, for free, concerts that hare happening inside concert hall
- corridors (for people AND wildlife)
- 8-block car-free area
- 1-hectare parking lot transformed to park

Strong Towns Local Motive series - 8 segments

3/5/21

6 strategies to foster entrepreneurship

1 - eliminate parking minimums

2 - lower barriers to entry on using existing buildings (sprinkler systems etc)

3 - ease up on permitting for reuse

4 - size streets for local use

5 - don't subsidize investors (Dunkin, Cheesecake Factory etc.)

6 - ?

Macro-efficiency vs local resilience

STLM guest Skyler Yost, Ecosystem Builder

Any community (or city) can un-slum itself thru local ownership.

The most stable retail entrepreneurs in distressed neighborhoods are people who own their own bldg (and

ideally live in it, and can rent out a couple of rooms) -- low overhead

Regulation, top-down enforcement is just 1 way of changing behavior; need to rely on whole behavior-change toolkit. Use regulation, but also community-level social change -- 3 steps:

- generate collective demand
- coordinate a shift in behavior
- strengthen new norm

"Fish Game" - feel effect of different management strategies

Changing attitudes is not enough to change behavior; no one wants to change alone. Collective "pledge event" everyone making pledges to change behavior together w/o risk of acting alone.

Finally, to make change last, need to stabilize new norm. Need everyone to be aware, self-regulate. Establish the guardians of the sea -- voluntary sea patrol so everyone knows that if they violate the rules someone is watching. Fish biomass increased 80%

RARE(?) environmental org working with fisheries all over the world.

Problems are largely behavioral, and behavioral problems have behavioral solutions.

Saving Nature with Behavioral Science

Ask how can we:

- 1 - generate collective demand
- 2 - coordinate shift in behavior
- 3 - strengthen the norm

Online cooperative adaptation guide
[Rare.org/cooperation](https://rare.org/cooperation)
Erik Thulin

LID 3/18/21 6-8pm
Houston - Woodlands first LID master-planned
community
Kerry Karl VCARD
Wendy Anderson
Clay Ervin
Kelli McGee
Hugh
Dennis Church
Bruce Doig

Attendees (Zoom)
Rob Merrill
Sharon Leboffe
Russ Owen
Young Bear Environmental
Melissa Lammers
Jessica Gow
Billie Wheeler
Joy Taylor - Lake Helen
Jennifer Hopton-Villalobos Lake Helen

Norman Matthews dry pond need proof

Bill Kachman - solutions FGBC Florida Green Building.org

Doig - stormwater harvest 14 Altamonte saved
condemning houses for 9AC pond, saves pulling water
from aquifer to irrigate

Climate First bank - opening later this year in Tampa, also
located in Orlando

LANDSCAPE MUSINGS (my thoughts): Modern
mainstream turns plants into inert furniture -- what if we
go in the opposite direction. Living pergolas and porch
bump-outs made of bamboo (live) and other fast-growing
vegetations.

1.000 Friends of Florida

Th 10/22/2020

Sustainable Landscape Sharing Perspectives

(2) Patrick Bohlen UCF Arboretum

prev talk "Biodiversity as a metric for sustainable
landscapes"

Biodiversity loss is as important a global issue as climate
change (JN note - i think they are both SYMPTOMS of the
one root problem)

Causes of bio loss

- habitat loss (ag; development)

- nutrient loading
- invasive species
- pesticide use
- climate change

Ecosystem services - millennium assessment

Florida is a biodiversity hotspot

In some yards it's easy to boost biodiversity by 10x!

30 yrs planning for Zone 10A (he's UCF arb in Orlando)

Break down growth & decay; break down # of connections -- reduce resilience

- UCF - first "Bee Campus USA" in Florida
 - Introduced first prescribed-fire program, right there on campus
 - native species of plants produce more caterpillars - impt for birds (*Tallamy)
 - - trad stormwater ponds w littoral zones grown, can support 100x more biodiversity than naked ponds
- HOAs have huge impact on biodiversity
FL has more HOAs than any other state
- Mixed turf-grass can be good habitat

Neptune Housing @ UCF - Dix & Hite did native landscaping; successful

Netherlands has great acceptance of wildscapes bc they have so little left

FL many of our ponds are sprayed; naked. Harms biodiversity.

*Chris: looking @ FDOT pond, hoping to approach FDOT, change paradigm

(1) Chris Hite - landscape architect, Dix Hite

Q's:

1 - How defn sust landscape? broadly, the land not just soil, not just water, not just plants - working to protect & regen ecosystems overall

2 - FL challenges & obstacles

3 - Successes

1 - Healthy humans! Landscp help humans be healthier & calmer esp in time of Covid. Hazard mitigatino, resilience. Landscape sustainability "across the transept" from urb to suburb to rural

Scale goes from very small microcosm to community level

2 - Norm: still developing w lots of sod, no holistic consideration

St Aug, irrig system, few shrubs. Also doing same thing BROADLY -- landscapes using resources they shouldnt be. Irrig running even tho it just rained. Draining into storm system. How do we change this, how do we move the needle?

3 - Oviedo on the park

New village center - create 2 nodes for city of Oviedo
FF landscaping, conservation, wetlands, LID
but also

Challenges:

- littoral zone hard to maintain, City cut it down
- City doesn't like pine needle fall

Starkey Ranch 30,000 ac Pasco county

Challenges: Homesites defaulted to standard, ornamentals & sod.

Hamlin - village in Horizons West. LID. Hamlin soils amazing soak up water like sponge. Publix & Walmart embraced LID.

Goals of Outside Collab:

- Establish a new norm
- Connect the dots, get people talking
- > PAtrick Bohlen UCF helped Oviedo city guy w maint challenges

(3) Timothee Sallin

17 SDG's

Purpose of Outside is to shift the landscape paradigm in Florida — 10 strategic goals:

1. Promote statewide collab around sustainable landscaping practices
2. Increase supply of FL natives and FL-resilient plants

3. Grow industry competencies in sustainable landscape management
4. Support local govts to evaluate effectiveness of codes
5. State agencies - work with (?)
6. Quantify economic impacts and ecosystem services
7. Partner with development community to implement sustainable landscapes holistically
8. Work w existing developers and HOAs to retrofit sustainable landscapes holistically
9. Develop holistic sustainable approach to landscape transect from design to implementation to management
10. Educate communities to expand perceptions of what landscapes can provide.

LAND DEVELOPMENT PANEL

Facilitator Pierce Jones

BMPs in built environment

Family Lands Remembered LLC (land-use & enviro consulting firm Jupiter FL; dedicated to preserving FL rural lands & nat resources while promoting a more sustainable way of life.

- Ernie Cox
- Richard Levey
- Brian Canin

Pierce Jones:

Intro

Context

Oakland Park Winter Garden FL

FL using water in profligate manner for many years

Image: de-sal plant in Tampa Bay. De-sal ENORMOUSLY expensive. Strong incentive for water conservation.

500 gals/day/Household ; 200 gals/day/person

Can we build communities that use levels of water we can tolerate?

(1) Richard Levey talking about big residential and hotel development

(2) Ernie? Emie? Miami 1924 corp southern Volusia northern Brevard county - cattle ranch. Has been commercial timber op. Farmton: local plan 3,900/5,100 ac will be preserved eco.; put development in areas already impacted.

Deering Park North - 75% of land will be preserved
Over 50K of 70K ac will never be developed.

(3) Brian Canin

Susteny nature-oriented planned community

Abuts Econ Preserve & river. Close to university. Work close to home. Use electric micro mobility vehicles. 2,000 residential units.

Sustainable self-funding over 100-yr period. Population 7,000. BUT - (bad in my opinion, can't remember if the

person speaking expressed the same opinion) includes no commercial, industrial, or retail.

Reduce setback - save land, increase affordability, reduce pesticide use etc.

?Pierce again? Talking about Muhly grass landscape near sales office.

FFL program has been around for some years but HOAs have fought them.

Places where we buy plants - Lowes etc.

Plants & groundcover are initially more expensive than grass.

Dirt on top no nutrients because used to be 10 ft down.

Keep top material that's rich. Put sterile soil under road.

Brian - is redoing his personal home. it's helpful to think about the way builders build houses. Landscaping budget is very low. Brian treating his house as research project tearing out 3,500 sf of sod.

—> Cost-effective uniform mowing & management - Is there any way we can take advantage of unified management structure to promote native? In theory yes, but profitable large-scale projects depend on segmentation of market.

Covid - work at home - Brian constantly heard mowing and blowing. This could be oppty - toying w requiring contractors to use electric.

Take a page from appliance energy conservation info

Keynote address Jeff Vandermeer
fiction & nonfiction

Came to this late; took me time to settle into a sense of place. How I came to rewild our yard.

Born PA, parents Peace Corps; lived in Fiji islands til age 6. So, I expected about my life that nature would always be there. Family moved to Ithaca 2 years, then Gainesville - college then Tallahassee.

Gulf Oil Spill 2010 was his moment of crisis. “gushing in our minds” too. His novel *Annihilation* - I felt for first time like I belonged to a place.

2016 - upstate NY for a semester

No reason why “security & respectability” can’t fit into a wilder context, supporting a more fertile chaos of life forms.

Got reported, written up.

Delved into what neighbor was complaining about; put 2-foot white wire fence around Salvia and then sculpted the Salvia. Sculpted grass to 9” tall.

Useful social signifiers that give status

Wildlife cert, etc signs

“Let them haunt? us even tho it is painful” rather than being frozen or cynical. Nature is not fragile or weak.

Given half a chance, it can thrive.

Govt panel

Facilitator Deirdre Irvin SJRWMD (I heard her speak at Water Symposium in Deland 2018 or 2019)

Sean Parks - Lake County Commissioner
Bill Truex - Charlotte County Commissioner
Lee Constantine - Seminole County Commissioner ; ex
mayor Altamonte Springs youngest in history
Nutrients in reclaimed water serve as fertilizer.

Developers can be innovative, creative, able to effect
change. St Aug grass is not native to Florida.
Altamonte Spgs “Apricot Project” every bldg has ??
Saves 2-3 BN gallons of water a year.

Konstantine: People live/visit here because of “the idea of
Florida” ; we need to fundamentally change the way we
treat water

Recommends septic-to-sewer

Valuable orgs they have found helpful:

- Florida Association of Counties
- SJRWMD
- FNPS
- FNGLA
- SWFWMD - did major reno Coral Creek. Filtration,
plants.
- FL Wildlife Corridor Foundation

State govt is not our friend. Bad for home rule.

Landscaping is #1 place to use less water. People with in-ground irrigation systems - 50% of their water consumption is outdoors.

ECFRPC

Resiliency with landscaping - how might we; big part is messaging; emphasize \$ saved, time w family

- Florida UBC probably best in nation
- And, Water Star program has a landscaping component

Nikki Fried Ag Commissioner recorded message:
Landscaping industry crucial thank you

Closing Session

Sallin: “the iron is hot, reaching a time when people don’t look at sustainable landscapes sideways”

Irwin:

Bohlen: oppty for workshops/visits around the state.
People moving to Florida have ecosystem blindness — need places for them to visit in order for them to become advocates.

Sallin: City of Groveland wants to revamp its landscape codes.

Deirdre: Interdisc group — good!

Need EVERYONE incl big-box stores etc to be doing things a little differently. Acting in our own interests, together we can create a community that truly thrives.

Covid - everyone at home - Deirdre observes 90% of traffic on street is lawn maintenance svcs. HOAs huge part of solution for long-term sustainability.

Launched 2 programs for CAMs (Community Association Managers); response has been good:

- Stormwater systems
- Irrigation

Collab needs to break out of silos

Fri 10/23/2020

FANN: Communicating the Value of Insect-Friendly Landscaping

Cammie ___? (moderator, Native Plant Horticulture Foundation)

- 1 - Dr. Janet Daniels
- 2 - Rebecca Burton
- 3 - Sadie Mills

(1) Essential:

- Food
- Decomposers

- Pest control
- Herbivores —> excrete nutrients as poop
- Most common service: pollination; responsible for pollination of about 87% of plants

Insects provide background resilience to changes in the environment such as climate change, habitat loss.

Diversity is akin to stock portfolio.

We can argue but we know enough to act right now.

Not just native and wild, ALL landscapes are now important, such as utility easements. Urban & suburban landscapes important.

Conventional
Florida-Friendly
Native

Insect-attracting factors:

- diversity
- bloom abundance
- community evenness

Disney Lodges introduced a diverse landscape. If Disney can, anyone can!

Insects need:

- Floral resources
- Host/nesting resources

- Limited pesticides

Diversity of flower shape & color begets diversity of insects.

Fancy double-petaled varieties bred to please humans can block pollinators' access.

(2) Rebecca Burton "Science Communication"

5 tips

"Information deficit model" simply stating facts/logic doesn't work bc we are complex; filter info thru our existing values and worldviews

Respond with stories and facts that match their values

Values:

- Tidiness
- Security
- Business reputation
- Pest management
- Low-maintenance
- Thrift (water or other resources)

1 - Ask Q's, practice active listening skills, find out what your client values

- How long have you lived here in FL?
- What do you like about living here?
- What are your goals for landscape?

2- Find common ground - what do we know that might match these values

Amber, red, or motion-sensor light can help provide security without harming insects

3 - Tell story to engage client

(3) Sadie Mills

4 - Use metaphors

- “Decomposers”: Think of insects like nature’s waste-management services, that keep trash from piling in front of your house

- Native plants: Adapted — “shoes made for that purpose)

5 - Use social math

- Megalodon shark (longer than a schoolbus and weighs same as 10 large elephants)

- Thanksgiving meal without pollinators

Troy Springer - converted to ecological maintenance co

Edu resource: FL Museum of Natural History; and Know Your Florida — fun engaging info

Brownfields conference Thurs 10/29/2020

9:30 Thurs

Intro by MW Mulligan of Orlando Interdependency — awareness is coming back

LiftOrlando, Eddie Moratin

Sustainable development in our communities involved bringing opportunities to disenfranchised areas.

Incorporating thought process of people in the community to bring in what they need including businesses etc. Not just building houses and apartments for profit.

Moratin: Importance of place and communities. We focus too much on the “thing getting built” and ignore importance of *place*. Stand for others in the name of justice, of what is needed in these communities.

Don't just build selfish communities of success — build communities that are *shared*.

Not just serving revolving doors of needy people. Need to move the needle.

Division Ave Orlando. Dividing line between prosperity and poverty.

Old community Jonestown downtown Orlando

BUt FHQ ruling 30yr govt insured mortgage was only for white Americans so city of Orlando forced out Jonestown residents, forced them beyond Division Ave, made way for white people. Cycle of prosperity is moving *backwards* in places regardless of the prosperity of their region.

Incomes grew by 10K since 2008 but DROPPED amid poor pockets of same area.

URBAN POVERTY IS MANMADE

- How to create a football stadium that is actually GOOD for the neighborhood it's in.

- 3rd grade turnover to other schools 100 PERCENT, despite outstanding principal and teachers. Greatest obstacle was OUTSIDE of school. Parents couch-surfing etc.

Healthy community requires complex approach to how we serve. Neighborhood of concentrated poverty actually has force of DOWNWARD ESCALATOR, making it hard for people to make good choices.

Different approach: Instead of asking what services and programs do you need, ask "What do you love about your neighborhood, What would you change, and *what are you willing to do about it*?"

—> This helps identify leaders

Grassroots, bottom-up, resident-led. Main Street programs.

LiftOrlando aims to reverse decades of disinvestment. Not only invest in people but invest in place. 321 affordable housing units actually look like they belong in nice neighborhoods. Parks etc.

We set the table for all of us. Because we are better together. Parable of the long spoon. As opposed to condescending; treating people as charity objects.

A third way. Not building "less than" in these schools. AND not building something that's good but only paves

the way for OTHER people besides the residents to prosper.

LiftOrlando.org ; Eddie@LiftOrlando.org

Eddie recommendations

- Perfect Built Communities - funded by William Buffett et al

Books: TOXIC CHARITY (Lupton)

UPSTREAM (Heath)

11AM Brownfield Snipe Hunting: Don't Get Caught Holding the Bag

Pam - speaker located in LA. Lost power; dialing in.

Flags for gas station — vent pipes, tank sump lids

Let the private sector do the work of finding sites. Real-estate agents etc.

Diff between what a STATE calls a brownfield, and what COMMUNITIES call a brownfield

Bootstrap EJ, a SC story 12:30-2

Fertilizer plant everyone in town worked at cited clean closure in '86 - looked horrible in '88. Abandoned site drug magnet - his mother would put blankets around women who had been sexually assaulted from bar down the street.

He saw documents showing many discrepancies.

Regenesis: 3 different neighborhoods around the plant packed the Council Chambers

The presence made a difference and council took responsibility.

Weed & Feed grant?

Urban removal removed a lot of bizs — groceries etc.

Job training aspects, aquaponic facility

Partner w local community college

Different certs - heavy equipment etc

One woman became homeowner thanks to it. Project's other residents saw her example.

Were able to attract grocery store to food desert.

Affordable Craftsman-style energy-efficient homes.

ReGenesis began constructing in 2015.

Renewable-energy STEM school. Solar, aquaponics, etc.

Fri 10/30/2020

Brownfields Town Hall

EJ = “fair treatment — meaningful involvement of all people”

EJ screening tool EPA? EJSCREEN

Prosperous places to live, work, learn, play

Brownfield redevelopment catalyzes business

ATLAS(?) resource

www.arcgis.com ?

Donna G-B says we can also use it to find lots for infill housing development.

Florida Brownfields Redevelopment Atlas

CUPP grassroots effort in Region 4 Bonita Johnson

Fri 10/30/2020 12 noon

Solving the Climate Crisis - Congresswoman Kathy Astor
(Tampa?)

We have a climate emergency.

Solve climate crisis; build back better

- The climate crisis is a public-health multiplier: disease; heat. Clean up power sector; aim for net zero by 2040.

Overlooked keys to addressing climate crisis

- Public landscaping changes
- Individual behavioral changes which trickle up to org.

Wed 11/4/2020

Old Malls/Greyfields: How Do You Eat an Elephant?

“In-kind” expenses

in-kind equipment, FEMA codes, etc.

Use FEMA codes as common operating language, holds
up to scrutiny

Demolition of a former Sears & former mall in Meridian
MS

Sears giant honeycomb facade

County was able to repurpose honeycombs in design of new building

Mississippi Childrens Museum

Saved \$ & resources by grinding concrete from slab, recycling steel from slab

Jackson Medical Mall 100% occupied and so is the strip mall across from it. East-West corridor between 220 & 55 Hospital pinched for space got the idea of using space in a nearly-empty retail mall.

Community outreach was KEY — intention to create prosperity OUTSIDE as well as inside the gates

Moderators Troy Hess, Melissa Schick

Speaker: Mr. Primus Wheeler

Aspires to be fence-free, open to community, blend in South Varden at Uptown - walkable residential area where people sit on their porches

jacksonmedicalmall.org

11/5/2020, 12:15

Attainable Housing

Shannon Nazworth - Ability Housing

Started in 1992 as 6 homes for people w disabilities

Ability Housing is recognized as an industry leader

Includes supportive housing, an evidence-based national best practice for LONGTERM homeless people w disabilities

High ROI from social perspective

Housing impacts:

- health outcome
- transportation (road wear from long commutes etc.)
- Corporate recruitment (they want to know there will be plenty of housing their employees can afford)

Fri 9AM

Brilliant Role of Land Trusts

Over 50% of US population lives within 3 mi of a brownfield. Great oppty for land trusts; redevelopment

Moderator: Melina Ambrosia, Cherrytree Tax Credit

Brokerage (MA?)

NALTA

- Land Trust Alliance - coalition of national land trusts
- Wildlife Habitat Council - makes connections

Ms. O’Gorman: supply chain, working w companies at every stage from extraction thru distribution & waste
Companies do things for business reasons not altruistic or philanthropic — otherwise it is not sustainable

C-Suite 16

The Business Case for Conservation

Wildlife Habitat Council

Disturbed habitats have great potential to bring in novel habitats. Connecting corridors in overdeveloped areas etc. - they can be the ONLY remaining habitat for species large & small. Mosaic or stepping-stone habitat.

Steven Carter:

Create new wetlands, grasslands, woodlands, w all different microclimates, soil types etc even soils that inhibit overgrowth of one type of plant.

Kat: managing risk

Bill Denman: Reventure Park “Ecological Silicon Valley”
Eco industrial park approx 185 ac

Thurs 11/12/2020

FANN

IPM for the Residential Landscape: A Holistic Approach

FANN Florida Association of Native Nurseries -

empowering professionals who grow, design, and plant native

- Native Plant Horticulture Foundation is a sister org
- Green Seasons Nursery (Roger Triplett) also a sponsor

Moderator Cammie

Presenter Amanda Rose Newton

IPM use is associated w agriculture; this webinar is to help with its application to residential areas.

IPM - using knowledge of pests & the environment to prevent pests from becoming a problem.

- With IPM:

- Pests will not totally disappear
- Not necessarily pesticide-free, but can be
- Natural balance between economy & environment
- Stop problem before it starts

1) Keep plants healthy

2) Use natural enemies (often already there)

3) Sanitation & monitoring

4) Choosing less-toxic pesticides

Steps:

1 - Accurate ID

2 - Know your pest*:

- when are they here?
- metamorphosis

*fungi, bacteria, insect, virus, nematode (most nematodes

- 99% - are beneficial)

3 - Monitoring

- visual inspection

- traps:
 - sticky traps
 - light traps
 - pheromone traps

4 - Create thresholds

- econ: how much is too much damage?
- aesthetic
- tolerance: how much can one plant handle?

5 - Create your plan

Means of control:

- Chemical
- Biological
- Physical
 - mulching
 - spacing
 - timing
 - selection
- Pathogens (BT etc)

O’Gorman: 2 remediation sites

A Tale of 2 Sites

- 1) Santa Susana Fuel Lab
- 2) Bridgestone Woodlawn/New Beginnings

Benefit to Bridgestone - internal cultural change that led it to treat its remediated sites across the portfolio AND sparked a more conservation-oriented corporate culture.

Allowing Eagle Scouts to build things, bringing in Master Gardeners, etc.

How to bring groups together. Bridgestone failed to secure land trust.

Value of telling a story

It's OK if we have different goals as long as we're headed in the same direction

NO MORE MOTHBALLING

Companies respond to EPA awards; praise

Conserve beneficial insects

- marigolds, coreopsis
- nasturtiums
- Parsley family - umbelliferae
- Sunflower family
- Rue
- Rosemary

(Parsley & sunflower are both excellent lures for natural enemies)

Trap crops

- a crop to sacrifice
- attract pests away from main plant you want

TYPES OF NATURAL ENEMIES

- Predators
- Parasites
- Pathogens

Good Predators

- green lacewings (prey on aphids)
- assassin bugs
- mantids
- minute pirate bug
- spiders
- ladybug
- ground beetle (metallic green; juvenile looks like earwig)
- wasp
- hover fly

Pollinators

- Beetles
- Bees
- Bugs
- Flies
- Butterflies

HEALTHY SOIL is one of best defenses. Healthy soil nurtures healthy plants.

Biorational pesticides — safer but are wide-spectrum. BT bad for butterflies!

Conventional pesticides are easy for pest to develop resistance

Wed Nov 18, 2020

1,000 Friends of Florida webinar

The 21st Century Car-Optional Neighborhood

Victor Dover

Dover Kohl & Partners

We've been asking the wrong questions

His employees were arriving by bike “getting the best parking spaces in the building”

Wrong Questions!

- How can we satisfy the person who insists on driving alone?
- How can we keep traffic moving at all costs?

Right Questions:

- How can we reduce car miles and still have vibrant economy?

A city is a communications device, it sends you messages

- London bright-red doubledecker buses: “Transit is cool!”
- South Florida road soup sends very different message

We are spending trillions and still “running out of roads”
Trying to build our way out of the problem induces more driving.

West Orange Trail central FL: Once it went in, home developers started building porches to face it!

“We were trying to go faster but all we did was go farther.”
FL population is growing, period. 3 mil more by 2060.
(Note from me: Really? Even with mass die-offs and forced migration from climate change? Im not feeling like it’s even a given that the human race has til 2060.)

If we depend on cars for everything, they take up too much space.

Mentioned upcoming MCORES webinar
(John DeGrove lecture series)

400 cars = 8 buses = 1 train

We have a lot of (empty) space inside cities. Reimagine streets as places.

Paint aerial photo to show total area taken up by parking
-- it is huge

94% of the time our cars are motionless, empty

Atlanta aerial photo. Econ 101 the high cost of parking

What NOT to do about traffic congestion is focus on the congestion. Embrace inevitability of congestion; make livable towns. Managing traffic. Houses, shopping, workplaces close at hand.

--> Car-optional community

Walking is first priority

Bicycling is safe

Transit is provided *as if we really mean for people to use it*

This DOESN'T necessarily lead to high-rise.

Low- and mid-rise.

SmartGO Car-Optional Living - NFP founded by Peter Katz. www.smartgo.network

How insurance rates can be lowered in car-optional neighborhoods etc.

Shoot for a PERCENTAGE of car trips. If now 1.5%, shoot for 25%

TOP 10 LIST

10 - Develop around a transit-connected mobility hub, linking region & neighborhood transit riders help drivers too! Dedicated bus lane powerful.

9 - Make it easy for workers to commute by bicycle etc. Showers etc are cheaper than parking lots.

8 - Right-size parking: Just enough, not too much. Imagine life after the parking lot/parking space.

7 - Optimize for new TECHNO-mobility. Bots, autonomous circulators, ride-hailing, bikeshare, scooters etc. Should get break on mortgage, insurance, etc.

The remaining 6 are low-tech:

6 - Connect to surroundings via high-quality bike infrastructure: greenways, trails, etc.

5 - Plant street trees! And more street trees! As essential to transit as the transit vehicles themselves. Shaded sidewalk is LIFELINE.

4 - Street-oriented, street-shaping architecture

3 - Lay out small blocks in interconnected web pattern. Permeable neighborhood more like web; less like cul de sac tree.

2 - Design slow, safe, highly walkable, highly bikeable streets. Full range of street types and intersection types, incl roundabouts.

1 - Bring things closer together; practical mixed-use.

Upcoming webinars

Dec 8 MCORES

Q&A

Q: What is first thing you think community can do?

-- PLANT STREET TREES. Will help stop the self-fulfilling prophecy that people don't walk in Florida. Urban forestry crews cost a lot but make that back in added value.

-- Fix zoning

-- Rethink parking minimums

Q: Municipalities concerned by cost of street trees.

-- Coral Gables urban forestry crews.

-- Value pays for itself - Savannah

LIGHT POLLUTION WEBINAR

FNPS Lunch & Learn: Dark Sky in Florida

time 41:54

Madelline Mathis, International Dark Sky Association (IDA)
Florida Chapter

Light pollution from improperly chosen lighting fixtures has negative impacts on human health, wildlife, plants, and yes SAFETY. Quality, responsible outdoor lighting is key.

Dark Sky policies that reduce light pollution in cities, parks & other places improve human health, while also

creating opportunities for tourism, and resident quality of life.

3:12 Dark Sky lighting at Harmony FL
full cutoff features; light directed

2:17 can't see intruder! Well-directed light is actually safer
and more likely will be cheaper to operate

A night at a certified Dark Sky park - Kissimmee Prairie
Preserve State Park

1:57

54,000 acres - largest grassland remaining east of Great
Plains

Top destination for stargazers and astro photographers

Friday 1/22/2021

LUNCH & LEARN - Florida Native Plant Society

Setting the Stage: Children and Nature

Getting children engaged w nature

Anna Clarke clarke.anna@gmail.com

Montessori teacher

Learning doubles when children are told where the bathrooms are. Need to know they can get their basic needs met - eat and drink when they want, etc.

2/2/2021

VOLUSIA WATER SYMPOSIUM

Volusia Water Alliance

The Right to Clean Water movement

Recording & speaker bios: volusiawater.org

The right to clean water and healthy ecosystems.

Recognize the rights of nature.

Speakers

(1) Chuck O'Neil

Right to Clean Water Charter Amendment 1 passed 89%.

Main problem in Florida is eutrophication.

- Economy: Loss of tourism
- 1/2 of waterways threat to life

Center for Earth Jurisprudence: Rights of Nature movement

After big die-off of 2018, he knew he had to do something.

Regulatory process only regulates the destruction not stops it.

Econlockhatchee and Wekiwa rivers WAY over safe level.
Orange County R2DW Amend

1) give natural rights to those rivers and ALL other rivers
in Orange County

- Right to exist
- Right to flow
- Right to protect against pollution
- Right to healthy life, ecosystems

2) give CITIZENS the right to clean water

3) define polluting entities violating both

Speaker

(2) Jim Durocher - director, Florida Rights of Nature
jdurocher@yahoo.com 321-243-0279

Fed regs "how much pollution can be in the water" -- and
it can be a LOT

Form Rights of Nature groups - MANY resources

Benefits:

- 1 - return to a living earth
- 2 - healthier citizens with more recreational opportunities

Volusia County is SURROUNDED by water!!!

Speaker

(3) Clay Henderson - legal defender of nature spaces
Led Florida Forever; Volusia Forever

How can VCC Charter & VCEMS (Volusia County
Environmental Management(?) Standards) be used?

Rhode Island - Right to fish

Illinois - Right to healthful environment

Hawaii - Right to clear & healthful environment

Montana, Massachusetts, Pennsylvania: similar language
-- clean air & water, freedom from excessive noise

Art 2 Sec 7

Conserve & protect natural resources & scenic beauty

Art 8 Sec 1

Charter govt

Volusia County Charter

Sec 202.2 Security of citizens' property rights

(3) Abuse of environment

(a) pollution of air, land, or water by substances

(b) pollution of air, land, or water by conditions including
unnecessarily injurious noise, heat, or odor

BUT, unfortunately: Florida Statutes legislative preemption

Speaker

(4) Kelli McGee

Center for Earth Jurisprudence; Riverside Conservancy
Environmental law PERMITS (verb) pollution!

Riverside Conservancy - relevant to Rights of Nature movement. Green infrastructure; native natural buffers.

We could look at "guardian ad litem" model

Precautionary Principle - serve all the parts, speak for ecosystem as a whole. AND, it's also good business practice.

Q&A if state preempts rights of nature/water, we could focus on "Rights of Humans" aspect of it.

Wed 2/17/2021

Economics of Development in Florida

1,000 Friends of Florida

Recording will be posted at What's New section on www.1000fof.org

Joe Minicozzi, AICP

Behavioral science: People don't do the math; they act against their own self-interest. Indiana folks not wanting to pay \$40-50 a month for school bus, but spend 20

hours a month driving their kids to school. That's \$200/month if poverty wages; \$560/month if median \$28/hr!

"Nobody wants to live downtown" - but if you put units there, they DO. Rehabbed retail buildings, ground-floor retail & upper floors apartments

Confirmation bias. Walmart 20 acres 34 mill; Asheville complex (apartments, rehabbed department store buildings) 0.2 acres 11 mill.

"A person who won't read has no advantage over one who can't read." -- Mark Twain

"That will never work - don't even try." (confirmation bias re downtown investment)

Average Walmart consumes more in police services than it gives in property taxes.

Building life cycle 15-20 years! Walmart developer brags about how cheap. Depreciation cycle etc.

Value PER ACRE map NC. Even little Black Mountain (population 12K) has super "tall" value per acre on map. Biltmore is huge \$ value, but in terms of value per ACRE, it is less than downtowns.

Mall of America is getting CRUSHED by downtown.
Not saying don't build malls & suburbs - just saying you need STRONG downtowns to be able to afford suburbs.

100-year-old Anthony Building in West Palm Beach has much higher value per acre than super high "Darth Vader Building."

Lancaster County lane-miles: Enough roads to go from Asheville to Portland OR!

Finance lists roads as ASSETS -- but you can't sell a road!

Per capita road footage:

10 ft/person Miami --> Palm Bay has 10 times this!!!

22 ft/person Gainesville (w students)

3 ft/person Naples

The system we've built and our financial incentives undermine our own wealth.

Tiny house in West Palm Beach ends up paying more taxes per acre than Mar-a-Lago. Even though her bill is like \$760.

Mincott Alley(?) neighborhood in WPB.

Plug for Chuck Marohn Strong Towns book

Force mains and lift stations are expensive.

Challenge FDOT whenever a NEPA doc comes out - to see if INDUCED demand is properly accounted for. Can't beat traffic by adding lanes.

Book: Design with Nature (Ian McCarg(?))

Mon Feb 22, 2021

The Nature of Cities Festival (conference - 2000 people from 70 countries, online!)

8:00 plenary

David Maddox emcee

(1)

Speaker Kate Orff SCAPE Co., NY & LA based.

Living breakwater.

[NOTE TO SELF: Also remember another Kate landscape designer/architect -- Kate FREY - learned about her via Mike H Transformative Adventures permaculture design course]

Seed sessions

Johannes Riegler - JPF Urban Europe

Unfolding Donut Economy Dilemmas in the Urban Anthropocene

Urban Nature & Economic Growth: Compatible or Discordant? Amalia Calderón-Argelich

12:30 Mon plenary

Nina-Marie Lister

Toronto

Activating the Biophilic City

Resilient cities are biodiverse and "natureful"

Biophilic Design

Toronto is a "city within a park" -- becoming a biophilic city. Investing in green infrastructure and making green spaces LEGIBLE to the public.

Urban farm roof produces 4,000 kilos of produce naturally. Toronto now has a green-roof ordinance.

Report: Wild, Connected, and Diverse: A Biodiversity Plan(?) for the City of Toronto

The Meadoway - 16 areas linked - was just hydro transmission corridor before

Activating biophilic cities

Lead with landscape; invest in green infra

(2)

Elizabeth Cook

Building urban resilience with nature-based solutions in the Anthropocene - Global network of networks

Challenges of urban resilience - US Midwest freezes; Australia burns. Age of weather extremes.

TNOC Tuesday 2/23/2021

Panel Moderator

JD Brown, program director, Biophilic Cities Network

Panelists:

(1) Tim Beatley

biophiliccities.org

Co-evolution

We are innately drawn to the natural world. We need nature all around us, not just something to visit. Need in cities. Immersive nature, all around us. Rooftop gardens connect w tree canopy.

Biophilic cities are ecologically regenerative. Shift understanding in the direction of sharing these spaces.

Yes birds etc do things for us but they have inherent worth, inherent value in their own right.

Add MAGIC to life.

(2) Dr Mike Wells

Biodiversity by Design - England

What does it mean to be a biophilic city?

How would a city achieve it?

- Maximize biophilic responses; minimize biophobic responses. Go deep into love of nature and our planet.

City can't just be "less harmful" to the biosphere; needs to RESTORE it.

The "seamless quaterbrid" city

<diagram w 4 circles overlapping arranged in square formation: natural; water?; social; techno>

Just one step toward GLOBAL ecotopia

Limits set by regulatory compliance

Eco-mimetic

Right down to even the ballpoint pens!

Homeostasis underpinned by system diversity.

(3)

Dr. Pippin Anderson

Urban ecological researcher at African Center for Cities

University of Capetown professor

City-building is all about obliterating threats from nature.

Malaria etc. People like coming to Capetown because no danger of malaria.

Anderson has reservations about biophilic cities; likes the idea of a place full of biophilic citizens.

Parks in Capetown - for poor people, have to offer more - sometimes just nature is not enough. Social Services will meet privately with you here, etc.

Timon McPhearson

Nature-based solutions

Free book "Urban Planet"

Extreme events are on the rise globally

IPCC and IPBES both put nature-based solutions as essential.

IPBES Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services

TNOC Tues 2/23/2021

12:30-2:30

Steward Pickett

Building anti-racism into urban nature

Book - The Ecology of Segregation

Poughkeepsie - Sojourner Truth born 1797 Swarthekill NY

Segregation is both patterns and processes

Segregation influences environmental benefits and burdens

- If environments are created, they can be changed

- Add ANTI-RACISM to all city visions

Panel:

Vivek Shandas (urban ecology PhD)

Toni Anderson (Sacred Keepers)

Red Summer of 1919 - boy stoned to death in Chicago lakefront park

5-13 degrees hotter temps in redlined areas

Heat island effects

White supremacy culture - don't mince words

Diane Pataki

Juliana Montoya

7pm

Moderator

Gareth Moore-Jones

Abraham Larsen - Use of ____ The Binding of All People

Community has MUCH better ideas on their own

Remove "white saviorism"

Community Garden for Houseless LA

Radical Gardening

Paige Emery & Sara Suarez

Translating biodiversity science into policy:

- Sivasothi N

- Stephanie Groen

- Anuj Jain

- Lena Chan

Yun Hye Hwang

Political Ecology in Compact Cities

Rewilding Singapore

9AM Wed 2/24/2021
Wangui Wa Kamonji
Regenerative Justice

Asked us to envision justice of world you are working for
- What are the foundations of this justice dream?
- Do they match up?

Regeneration is antidote to coloniality and ways of living.
Indigenous African methods of regeneration.

Retributive justice

State ways of working are intricate, obtuse, and rigid.

Monopoly on violent power.

Contrast with DISTRIBUTIVE justice.

Both reinforce violence of colonial state.

Need RESTORATIVE justice.

Community members, community as witnesses and support

Re-assemble value generators

GENERATIVE Justice

Generating & circulating value

Marxism decries alienating value from where it is generated.

Nature and unembodied spiritual relations are key value generators.

Princess Fley(?) Park

Residents reconnected with the spirit, now no longer afraid of her retribution.

- Restorative justice confronts and heals historical violence
- Generative justice puts value creators back in connection with value. Heals and repairs generational harm.

"A duty of care"

Interaction (she prefers this word rather than "stewardship" because ALL are sovereign beings including the forest (cf. Korean forest that made art on canvas shown at the beginning of the film))

Control is colonial.

Justice is a PROCESS not a state.

In indigenous worlds people often say "Everything is relationship."

Need healing skills and repairing skills.

Cape Town people's plan "Dressing Up the Princess"

Barcelona: Urban Injustice

Speaker: _____

Traditional professions and small shops destroyed; new economy "Grand Plan" didn't benefit everyone.

Super-block can have negative effect.

Building massive numbers of offices even though now teleworking is increasing.

Dialogue: How do we activate the construction center in activating nature-based solutions?

Moderator:

Siobhán McQuaid - look at future development working WITH community, industry

"Connecting Nature" project, Trinity College Dublin.

Integrate nature into urban planning not just for ecology but also for social and economic benefit. Nature-based economy, working with 100 European cities.

- 1) Rodolphe Deborre - Director of innovation and sustainable development for a French developer
- 2) Susanne Formanek Grünstadt-Grau(?) - CEO of _____ Green Buildings in Vienna - green roofs and green walls
- 3) Dusty Gedge - European Federation of Green Roofs Association
- 4) _____? - Marketing manager of new IKEA store in Vienna; may join later

Q Siobhán: How do we activate the construction sector in mainstreaming nature-based solutions?

A Susanne: Tell them it's necessary because of climate change. Old houses need a lot of energy, need recovery plan, start now.

A Deborre: Needs to work, needs to be legal. Need to find a way, because of climate change.

A Dusty: Construction industry is attached to fossil fuels, grew up in fossil fuels. It loves bricks, doesn't "get" nature. People have been trained to reject nature. Example: All buildings are designed primarily for airconditioning units since about 1922(?) 1992?? Why not design buildings to fit nature? Sounds left-field but is key.

- Deborre suggestion: Green people help the pioneers who want to change - don't try to change a whole industry. Scale up. Others will copy.

If we wait until you work through whole education and academic system, it's a long process. Find a way for engineers to experience nature as a way of building trust.

- Susanne: Explore park in building. Also, co-create districts.

- Dusty: Eindhoven IKEA - football pitches on tops of store. Helsinki, Melbourne, Chicago etc - IKEAS also have green roofs.

Construction industry will change when people go to the park to find nature.

Deborre: It has to work, and needs to be local with regard to biodiversity. Otherwise risk boomerang effect - back to concrete.

Nature-based design can replicate and scale up.

- Formanek: Gap in value change must be closed. New building certification in Austria: Climate-Active

- Dusty: Everything is so over-designed. Why can't people just sit by a meadow?

- Siobhán booth "Connecting Nature"

Subsession 2 - 9:30AM Wed

- Mary Rowe (has a really cool little apartment you can see in her Zoom background - everything compact, and a little portable radiator)
- Antonella Valmorbida

- Rowe: Individuals are incredibly resilient to their place, best things happen at local level. Canadian Urban Institute fosters this kind of local tissue.
- embrace a more wholistic understanding of the nature of cities
- how important self-org is to cultivating resilience at the most local level

? David Maddox
First started TNOC?

- Valmorbida (Italy): With the pandemic, we are understanding that nature is more important than we thought

- Rowe: Green movement has underbelly of misanthropy. There are some of us who are inherent believers in PEOPLE. This is an ancestral understanding that it's taken us too many years to reach. Nature delivers benefits to people, but ALSO people deliver benefits to nature. We need to NOT abandon the city.

Self-organization

Future of CARE FACILITIES. Longterm care is key. Nature is self-organizing. Solutions won't come from on-high bureaucrats.

- David Maddox: what "fizzy" things we can learn not only by talking to our friends but by talking with people who don't agree with us. (--> cf permaculture design principle of "edge effects")

12:30 - 2:30 session

Carolina Urrutia, Bogotá

Art intro: Dancing with Urban Trees (in a Paris park)

In recent years in Bogotá there have been many conflicts between development of infrastructure and conservation. More people finding it unacceptable to lose trees, natural spaces. How can we decide rules of game to avoid challenges and conflicts?

Moderator

M'Lisa Colbert

(2) Aisha Pellerés - Barcelona

Future "Big Green Lung" of Barcelona

Barcelona park project

Residents fought against the demolition of their houses (constructed by immigrants in 1920s-30s) for the park.

Decided to recover many of the houses that had been destroyed inside by city council.

Eviction of residents to sell to a richer class. A MUSEUM.

(The houses she showed are really old and pretty; cozy courtyards.)

Neighbors are taking care of the landscape now actually.
Challenges similar to in Bogotá and other cities.

#3 Jean Lemire

Arctic Mission - 25 years spent around the world

Exploration of natural resources exceeding what earth can really produce and offer.

75% of land environment and 66% of seas are SEVERELY affected.

Exotic species are traveling and they create imbalance.

Need to question the way we are feeding ourselves, because trees are being cut down for ag.

Lands managed by indigenous people are experiencing degradation at much lower rate than other lands.

#4 Tamy Emma Pepin - asking Q's to Jean Lemire

Whale & whale baby - Jean Lemire

#5 Cecilia Herzog - Brazil

People in Brazil are worried about putting food on their table so not willing to protect biodiversity. Millions are unemployed, worsening social, ecological, and economic issues.

Panelists

Cities based on nature

Various panelists

Juliana Ribeiro

Guilhermo Castagna
Daniela Rizzi

Cecilia Herzog Brazil Cont'd

(1) Pic of massive flood of river in Brazilian city, but this is playing out all over the world. People even having trouble getting houses and cars insured. We have been OCCUPYING nature but she can be our ally.

Linear park by river in city. Rain can penetrate soil. Also buffer between buildings and river.

Rainwater. Adapting lawns to be repositories/reservoirs for rainwater.

- Quebradas - Quito, Ecuador
- Santa Fé, Argentina - natural reserve so can observe flood; control risk of flood
- Campinas Brazil - biodiversity corridor

Growing horizontal, starts with everyday people. I believe in this process.

Forum for Radical Imagination of Environmental Cultures (within TNOC) put together the virtual chat room for TNOC "Garden."

VOLUSIA COUNTY AHAC BOARD MEETING
3pm 2/24/2021

Guest speaker on community land trusts
Florida Housing Coalition - Statewide nonprofit
CLT Institute - advocate at local, state, and national level;
there are about 20 CLT's around the state.

(1) Kimberly Spence: "Shared Equity Ownership: An Overview of CLTs" - Equity at resale is shared between seller and community; certain resale restrictions keep the unit affordable. Keep home affordable for next buyer while allowing current owner to retain equity.

(2) Cindy ___ - Exec Director of Palm Beach City CLT
LaCourse - Bloom
Countering NIMBYism
- Educate public
- Faces (show)
- Comps (not included in)
- Advantage of increasing homeownership

CHODO
Community
Housing
Development
Organization

TNOC 2/24 7PM

Moderator:

Gareth Moore-Jones (NZ)

(1) Shawn Lum - Urban Nature & Conservation Challenges
- Singapore as a garden city

Rapid clearing of land for commercial crops prompted authorities to set aside forest preserves in around the 1870s.

A lush green city was seen as a testimony to a city that could plan and manage things well. Lee Kwan Yew used greening to distinguish Singapore from other cities. Singapore set about raising standards of horticulture industry. Evolution from "Garden City" to "City in a Garden."

Singapore, a City in Nature.

Singapore has old rainforest in middle of city.

Using roadside vegetation to link urban greenery to natural greenery. Using LAYERS of vegetation to attract wildlife.

Species intentionally planted as food for caterpillars, and nectar for butterflies.

One Million Trees movement.

Established butterfly corridor along Orchard Road shopping district!!!

Cost of planning, implementing, and maintaining these verdant roadside parks: Honestly, depends on low-paid migrant workers.

Singapore smooth-coated otter returned after 100 years. Otters frolicking in concretized canals and eating expensive ornamental fish.

Wild boar moving through urban corridor.

Reboot the relationship we have to the wild areas.

6-min video - puppetry from Shanghai - turning trahs into musical instruments.

Dhumba from Kazakhstan

Moderator:

Tong Wu

Green Urbanism in China

- Dr. Bai

- Dr. Pengfei Xie

China made great progress in past 2 decades w green urbanism centered on people. More connection between people's livelihood and development.

Example: Heat pump introduced to Southern China Market

- Weiqi Zhou - gaps between science and policymaking are problem

Making city GREENER is not enough; also need to think about distribution of urban trees from social-justice perspective.

Get people involved, get the to do something to change their consumption behavior

- Dr. Bai Xuemei Bai

Importance of adopting systems approach in urban greening

Move away from emphasis on beauty.

Emphasis on beauty misses opportunity of having full functionality of green in cities.

Tend to plant exotic plants that require lots of water, maintenance.

"Sponge City" concept -- flood control, green infrastructure

Urban green mitigates heat extremes etc. Microclimate.

Ken Yeang: "Designing Ecotopia - Remaking our built environment for a resilient planet"

Architect

Research work on ecological design

Golden Chalice: Design the built environment as HUMAN-MADE ecosystems. Mainstream built environment is analogous to prosthetic.

Colonizing roofs of adjoining buildings to green the city.

Yeang:

Identify faunal species that were there before construction, and floral species that would attract them. Biodiversity targets approach.

Ecocell - device we put at bottom of building to bring in water, bring in daylight

THURS 2/25/2021 8AM

David Maddox: "Of" is the most important word in the TNOC title. The nature OF the cities we are trying to create.

Guitar playing by Juan Ignacio Patagonia

- Adjei Sowah, Mayor of Accra, Ghana - climate change activist. And involved with organization bringing economic empowerment to low-income communities.

"Inclusive Nature-Based Solutions as a Catalyst for Improved planning of Cities" (not exact title)

Accra rapidly growing city, faces many challenges

Enhance air quality, reduce heat islands, become more resilient to water issues and climate change, flood mitigation, eco restoration

Inclusivity is one of the key pillars in all my decisionmaking. Local governments in Ghana trying to

promote more grassroots involvement. Focus on building smart, sustainable, and resilient city.

Population 1.6 million driven largely by growing informal sector. Cosmopolitan city attracts many people.

A rooftop of the City Hall was converted to a rooftop garden where vegetables are cultivated. Has become an education center.

Vertical farming

Sees urgency of nature-based solutions

Embark aggressively on planting for food and jobs

Accra and Ghana as a result did not experience acute food shortages from Covid

Combination of city initiative and individual initiative.

Urban farming as a lay business. First Friday of every week is "Farmers Day" including people doing fishing, livestock. Recognized and awarded.

City seeks to create space to support farmers.

Greening and planting of trees

ecological life of water body

All wastewater unfortunately goes into lagoon, so lagoon gets choked. When he was growing up, it was major source of fish and crab, but now is dead. Effort now under way to dredge and restore.

Temps in Accra are rising - heat crisis.

Climate-change-induced migration is contributing to expansion of informal sector in city.

People building glass built structures just like in USA, forgetting that Ghana tropical climate is different.

People get on board to surprising degree - even banks in Ghana are eager to get on board with eco; greening.

Accra - every formal community has an adjoining informal community that feeds it.

Mayor was born and raised in Accra, has worked long for economic empowerment of urban areas, slums, serving people

Mayor Adjei Sowah

(2) Global Issues of Biodiversity panel - 3 speakers

Moderator: Ingrid Coetzee, Cape Town

ICLEE

Action at local level can ultimately have global impact

UN/ICLEE ?

How local govts can contribute to realization of biodiversity framework

- Thomas Elmqvist - Stockholm Resilience Center
- Didier Babin - Post-2020 Biodiversity Framework EU - France
- Chantal van Ham - EU Project Manager on NB solutions

(1) Didier Babin - major challenges of global biodiversity framework

Cities have impacts on biodiversity far beyond their borders - even on other side of world! "like enormous octopus"

Stop harmful subsidies and harmful investment
It's up to our decision now to make cities either GREEN
or GREY

How can govts facilitate green infra procurement and
investments

(2) Chantal van Ham - Brussels - what cities can do to
achieve post-2020 biodiversity goals

CBD's Convention on Biological Diversity

International Union for the Conservation of Nature

- Manchester - Grow Green

One of the few cities that have a Natural Capital
Investment Plan

"park that drinks water"

- Moscow - one of the world's cities with the most green
space

- Building with nature in Demak, Java
Countering coastal flooding, sealevel rises
Restore belt of mangroves
helps improve fish stocks too

Chantal van Ham cont'd

- Restoring forgotten watersheds - Masungi Georeserve
east of Manila. Clean water supply depends on the forest
of which only a bit is left

(3) Thomas Elmqvist - Stockholm

Future Earth Project "Urban Planet"

MUST invest in carbon capture and storage via ecosystems and landscapes, otherwise 2 degrees will not be enough

- create multifunctional landscapes
- regenerative cities - don't just be "less bad"; actually be positive

Moderator Ingrid Coetzee

Sees 3 common themes among all 3 speakers

- financing, access to finance
- spatial, land-use planning
- restoration linked to nature's contribution to people, eco services

Cities should stand up and make their national governments listen

Interlude: "Living Coffin" (mycelium etc.)

Isabelle Anguelovski (Barcelona)

Showing a video recording of her speaking means she can answer questions while she is "speaking"!

From environmental injustices to environmental gentrification

"The Green Divide" - documentary

Touching testimony from residents

Residents fighting for more = green city

Mentioned Barcelona - Poblenou(?) and "Superblock"
(gentrification example was mentioned by a speaker from
Barcelona yesterday)

Speculation, tourist hotels, green infra but not green for
everyone - little workshops pushed out - carpintería etc
Community garden threatened by hotel.

Commune de Chantenay Nantes FR
eco-gentrification example

Nantes is unique case, local govt focusing on anti-
displacement and social housing. Anti-displacement and
"right to the city" activism

"Extraordinary Garden" intended to attract foreign tourists

People witnessing, telling their stories

"Green Divide" documentary [www.bcnuej.org/
greendivide/#Home](http://www.bcnuej.org/greendivide/#Home)

Maddox: Prefers the term "displacement" to
"gentrification"

Isabelle Anguelovski: anti-displacement tools (50 tools
listed!)

- land-use regs
- tax breaks for residents

- developer requirements
- inclusionary zoning
- regulations for urban ag

Policy Tools (50)

- land banks
- density bonuses
- tenant oppty to purchase

policytools_finaldr

- Elmqvist: new journal npj Urban Sustainability
open for submissions
first papers online
Urbanization in the Anthropocene

Thurs 2/25/2021, 12:30

Pusan - desolate landscape - high-rises along river,
endless -- "one class can buy and take away the nature
that used to be public"

(1) art video

man playing shamisen-like instrument

(2) 17 books, more than 150 papers

Brazil Marcélo Lopes de Souza on video

"Let's talk about cities, justice, and the good life"

Marcélo's 2 theses:

(1)

- The presence of RURALITY in small and medium cities in the Global South is often underestimated
- the "urban" goes beyond the city (Lefevre) but the city is not always so "urban" as many believe, esp in Global South
- Is the label "urbanization" for many different realities a symptom of Eurocentrism?

frameworks imported from Europe and USA

(2)

Even more serious than underestimating the EXTENT is the tendency to depreciate and underestimate the VALUE of "what is not urban"

struggles of peasants, indigenous people are either neglected or treated as if they were relics of the past

(3)

Urbanization is ambivalent and contradictory process (as far as the 'good living' and justice are concerned)
de-territorialization of peasants
existential emptiness of urban life based on consumerism
"Stadtluft macht frei" - but is it?

residential segregation, oppression (by the state, AND by drug dealers)

Marcélo cont'd

From the Right to the City
to the Right to the Planet

The "right to the planet" exceeds the "right to the city" by incorporating:

- non-western other
- non-urban other
- ecological dimension on truly planetary level

Advantages of urbanization are pointed out with Eurocentric emphasis

City and urbanization have had both their staunch supporters and their staunch detractors - AND both groups are wrong

TNOC 180 sessions, 350 speakers, AND they are launching a poetry journal "SPROUT"

Kirby Manion

Dimitra Xidou

Sprout: An Eco-Urban Poetry Journal

(1) Mary Miss - artist; City of Living Lab - nonprofit brings together artists, scientists & community
NYC, Indianapolis, Milwaukee

Water project spread from inner harbor through city
As artist, she came up with conceptual framework for doing something at the city scale with no money.
Use verticals in Milwaukee to do point-by-point mapping of groundwater in city

One goal of City of Living Lab is to make sure artists have a place alongside scientists etc. Policy change is slow; artists as cultural actors have the power to make change. Smokestack lights blue if safe, red if chance of sewage overflow. Poles will pulse in neighborhood, a "call and response" with the whole city.

Engaging community members through process.
Milwaukee is one of the most segregated cities in USA.

Mary: always been passionate about engaging people with their surroundings. Tried to take dead pond and turn it into wetland.

City of Living Laboratory

(2) Steward Pickett
Watersheds in the BES (Baltimore Ecosystem Study)

A Social Ecological Approach to Watersheds

Steward: See WHOLE city as watershed

Many of the tributaries of the the city are your roof gutters, gutters on the street, etc.

Mary: All property is lakefront property; the lake starts at your front door.

City of Living Laboratory makes sustainability mechanisms VISIBLE and VISCERAL. Helpful to scientists too.

Takeaway: Don't hesitate to be an artist; we have a role

How do projects like this get funded?

Could cultural institutions in cities have artists in residence working alongside scientists?

Steward: Providing people with information is not going to save the day. We have to tell people better stories.

Eric Sanderson has list of 357 named buried streams in NYC.

Short film "Journey to Lioness"

Dialogue: Youth - how do we involve YOUTH more in defining future cities

- 1 - Diane Wiesner - Bogotá
- 2 - Laura Shillington - Montreal

efforts exist but are superficial

Transdisciplinary "fizz" (David Maddox) feels like permaculture principle of "edge"

TNOC 7pm

(I did not arrive til 8; was in another meeting)

- walked in on CuiFen Pui doing talk on community garden, permaculture
FoodscapeCollective.com

- Simon Morrison - Singapore

Connecting w nature

- explore your city's forgotten green spaces
- celebrate our tropical monsoonal climate
- learn to propagate local native & indigenous species
- try micro forestry

Amazing diversity springing back up from old rubber plantations

CITIZEN science

value the power of "design thinking"

- HB Tang
- Xinyue Gu

Devanish Jain

- HY William Chan - Housing - Innovating Sustainable Housing
Housing as a right, having shelter as a right
Build to rent (introducing in Sydney, one of most expensive cities)

Fri 2/26/2021 8AM
Plenary #17 of 18

"Earthling" film
COP-26 coming up

Moderator:
Gillian Dick, Glasgow
Anna Richardson, Glasgow

What can cities do for climate action?
What are some barriers?

- city govts deliver frontline services so there are many opportunities to show leadership in how we deliver service

more nimble than national govts

Climate emergency and ecological emergency are intertwined

Smart canal - adaptation and leisure and regeneration of community

During pandemic we realized how much space had been given over to cars

Everyone in Glasgow talking about climate now (good side of in-person COP)

Bronx

Nature-based solutions, green/blue development, and how they may benefit, OR NOT

- Harini Nегendra - Bangalore - is a novelist too!
- David Simon
- Johanna Alkan - Sweden

2/26 8AM cont'd

Nature and justice go hand in hand

Can't solve urban infrastructure problems without working with nature

Yet nature-based solutions can erode justice if not careful

Heat with HUMIDITY more deadly

Especially need trees on sides of roads

Too much focus on "greening"

Colonial-era regulations against farming which could provide LIVELIHOODS and other co-benefits such as biodiversity, eco-restoration

Bangalore: Health arguments are not convincing enough for budget-conscious officials

"join at the fizzy boundaries in open and productive ways"

Urban groves around Bangalore - get kids out, do mapping, do research for govt
wage labor - livelihoods
URBAN employment guarantee scheme
Bilingual book for children

Place Standard Tool for children in Scotland

Sweden- could "green deal" money be channeled to hand-tool jobs? Right now big mechanical mowers, and people have lost skills

Rural linkages - how can we strengthen teleconnection to promote biodiversity?

- Montreal - Oliver Hillel
- Jean-Marie Cishahayo
- Gilles Lecuir - Paris Agency for Biodiversity

Reference mentioned in chat: Patrick Geddes - place-based

Paris decided to reduce light pollution. REDEFINING modernity to mean "dark nights." (Back to the Future)

2/26 8AM session Fri cont'd
(footage of urban trees video)

12:30 Fri 2/26
Push the frontier of silo-ism back
"Water" film (in Japanese!)

Colombia super diverse - most (kinds of?) trees and birds in the world

Session in Spanish
María Mejía - Bogotá
Rodrigo Perpétuo
Nicolas Galarza Sánchez

Landscape & Democracy

- Claudia Misteli, Barcelona
- Martha Fajardo - arquitecta paisajista & activista - cada línea que dibuja en el papel es una acta política
- Roberto Mulieri

- Pere Sala

NO

separating communities

destroying nature

cities need landscaping certification that is eco,
biodiversity-centered

Managing landscape is managing a COMMON GOOD
Participatory democracy

If we can have a Latin American convention of
landscaping FRAMEWORK

Glue of civil society

Social glue that helps us be more resilient

Over-reliance but under-resourcing of civic stewardship
groups

(MY NOTES FROM PDC CLASS)

Fence as public interaction border

- vase

- aquarium

- bench

- library

- mini pool
- garden
- art pod
- seeds
- clothes closet
- compost
- cookies
- jewelry

NOT a webinar per se, but a YouTube video I heard about via the Deep Adaptation group on Facebook:

"How To Enjoy the End of the World" by Sid Smith
Dawn of new human future but first have to get through dark night

EROI primer starts around 16 minutes into the talk

EROI hunt-gather society btwn 1-2

Early ag EROI 4

Ag-based empire EROI 6

Conquest, pillage, admin, military, religious, economic hierarchy

BUT admin & garrison stretched thin
taxes are increased

--> resource depletion

--> civ is conquered or falls to pieces

Ancient Rome.

Rome squeezed its ag resource base for every drop of energy.

Dark Ages

Heat engine & coal, oil 18th century -- EROI up to 100

Globalized industrial civ EROI > 20

ENERGY 10 slaves/day < 1 gal gasoline
Average American uses enough energy daily to perform
work of HUNDREDS of slaves

Early Industrial Rev EROI 50-100

But now we face challenges. Older(?) civ is designed for
high energy flows.

Ag basis of any future low-EROI civ is being destroyed
--> energy cliff

Oil first exploited -- EROI 100

Then in roads, etc., went down to abt 30

By start of 21st c, avg EROI of conventional oil had
dropped to 20.

New deposits now 10 or less

Renewables: STORAGE drops EROI to barely 1

Biomass is a bust from EROI perspective

Established economies have a metabolic cost.
Infrastructure, institutions, population needs fed

Scrambling off energy cliff (see screenshot) none of these
options are available.

Shale oil fracking doesn't make money. Huge debt bubble.

In absence of enforced rationing, efficiency increases INCREASE rather than decrease the rate of consumption

Inventors Edison, Tesla, etc were grabbing low-hanging fruit. Size of teams and budgets to get new patents has exploded.

Only way to get the economy to use less energy is to unwind its complexity, and that is impossible to do.

4 primary sources of energy on earth:
solar, tidal, nuclear, geothermal

Nuclear plants rely on subsidies

1 cal of food requires 10 cal of fossil energy to produce

Our crops (corn etc) are plump at the expense of more fragile roots, less drought-resistance, less pest-resistance, dependent on irrig, fossil fertilizers, 'cides etc.

Collapse is already under way.

- material "real" economy
- financial economy

(in a balanced state)

Financial economy parallels real economy and provides essential services

BUT when complex systems collapse, a universal symptom is the financialization of growth

Liquidity is being provisioned by the financial system but it doesn't translate into real growth

Disparity in financial wealth widens as incomes that are dependent on the material economy start to shrink.

Meanwhile, incomes from financial sector increase exponentially as speculative bubbles are created. Speculative bubbles form

Energy basis of real economy is in decline and can no longer support growth

As speculative bubbles are created and burst, a ratchet effect ensues in which the wealth disparity grows. Almost w/o bound.

Since 2008, incomes have declined for 90% of Americans.

The value of the stock market has TRIPLED. Big disconnect somewhere.

Socialists say "If the Kochs and Bezos weren't stealing it all there'd be enough for everybody."

But that 150k per minute that Bezos makes isn't the same kind of money that we get in our paychecks. His wealth correlates to POWER not to consumption.

In real terms, economies of wealthy countries went into permanent decline between 1970-1990 and the decline is accelerating.

Emerging economies have now also peaked, and the rot of financialization is setting in there as well.

Financialization shell game runs out of tricks. Govts inflate their GDP figures. "Imputed rent" of mortgage-free houses.

After 2008 they lowered interest rates to less than 0 in real terms. Giving away \$ for free to banks.

Putting financial economy on life support by exploding both public and private debt.

Debt (household, student, mortgage, social security, and other debt) = nearly 400% of reported GDP per year

When the deleveraging of the financial economy hits and collapse ensues, those of us who've thought about it are going to breathe a sigh of relief.

The sooner it happens the greater will be our celebration
-- because what if it DIDN'T happen/

Ecosystems collapsing -- insects, fish, vertebrates.
Accelerating rate of loss.

Without functioning ecosystem there is NO basis for ANY
form of human civilization.

We have at best 10 years to wean ourselves off fossil
fuels or we'll see at least 4 degrees C of additional
warming possible as soon as 2040 and definitely by 2050.
Feedback loops kick in, driving up to 10 C no matter
what.

Human system lurches on hopelessly.

If it could continue, would be omnicide. Fortunately it
cannot.

So:

- 1) Dispense with illusory hopes
- 2) Avoid latching on to predictions of how collapse will play out in short term
- 3) War, nuclear weapons are worse than collapse. Then outcome is APOCALYPSE.

As a species we are massively in overshoot of our environment. If nothing else does it, famine will. If not famine, then either epidemics or wars.

So to achieve goal of enjoying end of world, need new way of thinking and new way of being.

The people who come thru to other side and build new human future will not be the preppers with their bunkers and their ammo. And will not be the super-rich with their million-dollar garden-gated palaces.

The goal here is not simply to survive and make something out of the ruins; that would suck. Our aim is to look toward the human horizon with our shoulders squared, a glint in our eye, and a smile on our lips, ready to build something BETTER than we've left behind. This is not a fantasy, this is how things work.

CS Hollings - Adaptive Cycle

Cycle of creation, destruction, renewal.

Energy in climax complex systems is rigid, locked in place, unavailable for adaptation and change.

When complex systems collapse, that embodied energy becomes liquid, available for new patterns of organization.

Self-organize and optimize but in new ways.

When giant tree falls, opens up canopy.

Fall of Rome was not just a loss but an opportunity.

Release phase has begun and is about to send us back down the back loop of the Adaptive Cycle.

As prisoners of commercialized society we've been steadily robbed of agency in our own lives. Most of us don't know how to do real things.

Trapped into indebting ourselves and then selling our labor to service our debt, we haven't build community.

We haven't created authentic culture or felt the time and space for quiet discovery, or familial communication with our human mileu.

As collapse unfolds we can enjoy new freedom to be resilient, adapt, and have agency to re-organize the elements of our world.

We will have less, use less, watch less, travel less but we will DO and SEE more.