Building Community Networks and Resilience through Stewardship

This webinar will start at 10:30 AM.

Office of Climate Change
April 11, 2019
Welcome!

Today’s webinar: STEW-MAP

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Today’s webinar topic: STEW-MAP

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Agenda

• **Announcements** – Willow Eyres, DEC

• **Presentation** – Building Community Networks and Resilience through Stewardship:
  - Lindsay Campbell, US Forest Service
  - Laura Landau, US Forest Service

• **Q & A**
Funding Opportunities

- **Municipal Clean Vehicle (ZEV) Rebates** from DEC OCC
  - No match; up to $5,000 per vehicle purchased or leased (36 mo.s)
  - Deadline: **July 26, 2019**

- **NYSERDA Drive Clean Rebates**: up to $2k for plug-in hybrids or battery-powered cars

- **NYSERDA Charge Ready NY**: $4,000 per port to for qualified Level 2 EV charging equipment at locations that provide public charging, workplace charging, or charging at a multi-unit dwelling
Funding Opportunities

- **NYS Pollution Prevention Institute Community Grants Program**
  - Pollution prevention outreach and education projects
  - Community organizations, municipalities, and public sector and nonprofit entities
  - Deadline: **May 31, 2019**
Upcoming Events

• April 15-17, Community Risk and Resiliency Act (CRRA), NYS Floodplain and Stormwater Managers Association Conference, Suffern

• April 19, CSC: CEC High Impact Action Workshop, Guilderland

• April 28-30, NY Planning Federation Annual Conference, Bolton Landing

• May 6-7, Community Rating System Training, Oriskany
Upcoming Events

- **May 8,** 2019 Hudson River Symposium, Hudson River Environmental Society, Vassar College

- **May 9,** CSC Webinar: Reducing Climate Change Impacts of Fluorinated GHGs through Outreach and Education

- **May 16,** Public Health Live! Webcast on CSC

- **June 12,** 4th Annual Redevelopment Summit: Pathways to Revitalization, Sage College in Albany

- **June 19-21,** At What Point Managed Retreat?, NYC
Building Community Networks & Resilience through Stewardship

Lindsay Campbell & Laura Landau
BUILDING COMMUNITY NETWORKS THROUGH STEWARDSHIP

Climate Smart Communities
4.11.19

Lindsay K. Campbell, Ph.D
Laura Landau, M.S. City and Regional Planning
Erika S. Svendsen, Ph.D
USDA Forest Service
NYC Urban Field Station
New York City Urban Field Station

“To improve quality of life in urban areas by conducting, supporting and communicating research about social-ecological systems and natural resource management”
All lands, all people
All lands, all people

Bronx River, New York
2009
Photo courtesy of NYC Parks

Willamette National Forest, Oregon
1979
USDA Forest Service Photo Archives
Everyday nature

Marine Park, Brooklyn, New York
People as positive agents of change

Ms. Shirley Boyd. Garden raising in Franklin Square. Baltimore, Maryland. Photo by Steffi Graham, 1994
Acute and Chronic Disturbance
Acute Disturbance: Terrorist attack and hurricane

Post –9/11 Living Memorial Project in Manhattan, NY

Post –Sandy MillionTreesNYC planting, Rockaway, NY

(Svendsen and Campbell 2010; Tidball et al. 2010; McMillen et al. 2016)
Chronic Disturbance: Fiscal crisis of the 1970s

New York Daily News Headline
Oct 30, 1975

Mr. Dimas Cepeda at El Batey Borincano, Bronx, NY 1999
Photo credit: Steffi Graham
Stewardship and Civic Engagement
Tree planting a gateway to civic action

Stewardship as an Indicator of Social Resilience

• Place attachment
• Collective identity
• Social cohesion
• Social networks
• Knowledge exchange

Stewardship as a form of governance


Cultivating Knowledge Networks: urban to rural
Green readiness, response, & recovery: A collaborative synthesis

What you will find inside this new compilation:

--What is natural resource stewardship? How can it strengthen communities?

--Case studies featuring state of the science and practice around the design, stewardship, and community use of green space in response to different acute and chronic disturbances

--Ideas for programs, partnerships, and networks at multiple sites that are helping to prepare communities and foster stewardship responses
Case Study 1: ALB Outbreak, Worcester, 2010
Worcester, Massachusetts

• Asian Longhorned Beetle discovered in Worcester in 2008, thousands of trees started coming down
• Worcester tree initiative to plant 30,000 trees in 5 years
• Successful response to tree devastation trains communities to be more resilient to future stressors
Young Adult Forester Program

LOOKING FOR A JOB?

Youth Ages 18 - 24

9 Month Job Program

TRAINING STARTS
MARCH 7TH, 2011

- Work Readiness Training
- Urban Forest Stewardship Training

INFO SESSION
When: March 4th and 9th, 2011
12:30pm - 2:30pm
Where: Worcester Youth Center

For more information contact
Worcester Youth Center
320 Shrewsbury Street
Worcester, MA 01605
(508) 791- 6702
www.worcestersyouthcenter.org

Program Funded by:

Department of Conservation and Recreation
Lessons Learned

• Most people agreed on a love for trees

• Develop clear, structured programs for volunteers to join

• Develop local partnerships, and realize it takes time.

• Involve elected leaders

• Keep people informed
Case Study 2: EF5 Tornado, Joplin, 2011
Joplin, Missouri

- EF5 Tornado May 22, 2011

- Drury University organized many volunteer responders

- Re-greening Cunningham Park
  - Symbolic of where tornado first reached maximum intensity
  - First city park in Joplin

- Created a volunteer tribute garden and butterfly garden and overlook

- Collected individual experiences from oral histories and journal entries collected in the butterfly garden

- Created “sacredness” in space
Re-greening Cunningham Park

“That tree in my backyard is a symbol for me of Joplin. It is a survivor, it healed, and now it is growing again. One minute you are sitting there, storm warnings happened, and then my life changed in an instant. I am lucky to be alive. Joplin will come back but it will take a while. Joplin will be bigger and better but it will not be the old Joplin.”

Lessons Learned & Recommendations

• Survivors need to tell their stories. Listen, remember, share, and respond through design.
• Archive stories of heroism, symbolic spiritualism, and storm facts and make them available to community and visitors.
• Articulate a rallying theme to unite and uplift the community.

A father reading the healing journal to his child, (Melgren 2015).
Case Study 3: Superstorm Sandy, NYC, 2012
Rockaways, NYC

- Superstorm Sandy (2012) devastated large parts of the Rockaways, including the Edgemere Public Housing Community

- NYCHA closed the community garden

- The storm disrupted existing gardening practices, and the project attempted to co-design and create a larger garden with the community

- Relied on existing resident knowledge

- Photo essay documented the everyday triumphs and tensions of working with the community at every stage of the garden development
Listen
Collaborate
Care
Visualizing Stewardship
Co-created landscapes

Urban environmental stewards conserve, manage, monitor, transform, advocate for, or educate the public about the local environment. (Svendsen and Campbell 2008; Fisher et al. 2012).
Mapping green space and social space

Green space

Social space

NYC STEW-MAP 2007
Stewardship Characteristics, Turf & Networks

Organization: Bronx River Alliance
Year Founded: 2001
Paid Staff: 11+
Volunteers: 11+
Members: n/a
Budget: $1 to 2 million
Site Types: watershed, stream, shoreline, parks, community gardens, natural areas, street trees, vacant lots, public garden, greenway, flower boxes, public ROW, green roof, courtyard, front and back yards

Stewardship Intensity

USDA Forest Service, NYC STEW-MAP 2007
Key nodes: Civic & government brokers

Takeaways

• Stewardship is often an indicator of social resilience, helping to foster positive connections to place, build trust, and share knowledge at the neighborhood scale.

• Environmental stewardship can be an effective catalyst for recovery.

• Stewardship mapping can help identify potential linkages.

• How can disaster management and resilience planners harness the capacity of these groups and at the same time support their ongoing work as part of a preparedness strategy?
Thank you!

Learn More:
https://www.nrs.fs.fed.us/STEW-MAP/
https://www.nrs.fs.fed.us/nyc

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Planting after the storm
Photo courtesy of NYC Parks MillionTreesNYC program
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Webinar slides & recordings:
http://www.dec.ny.gov/energy/84359.html

CSC Certification Portal:
https://climatesmart.ny.gov

CSC Funding Programs:
http://www.dec.ny.gov/energy/109181.html