## Live Free and Dig with the Littleton Garden Club

Second Annual "Land that I Love Mini-Conference"

## helps community understand environmental sustainability challenges

BY CANDACE HEINEKE

At the Aug. 3 Agrarian Society of Peacham's "Land That I Love" Mini-Conference, researchers and land use innovators shared their efforts to mitigate the environmental effects of

climate change.

Ellie Blachly, the conference organizer, opened the conference by posing the question: How can we capture more rainwater? With rain simulators at Vermont Technical College, researchers study relationships between

livestock grazing events, hoping to maximize the rainfall amount that "infiltrates" into the soil. Eric von Wettberg,

varied rainfall events and

Eric von Wettberg, UVM professor of Agriculture, Landscape, and Environment, explained how scientists have met the problem of reduced water availability around the world-not by increasing soil capture, but by moving rainfall inland, away from the ocean where it would originally have fallen without an intervention. How is *LGC*. PAGE A6

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this accomplished? Eric explained that all plants water upward move

atmospheric

moist air from over the

ocean to areas over land.

This "imported" air ris-

es, condenses, and falls

over land as additional

pressure.

green spaces, they can offset evaporative losses from the soil to their aecaused by global warmrial parts, where it evaporates to the atmosphere

Bielenberg. Carl founder of Village Industrial Power in Calais. Vt., spoke about his experience in Tanzania,

rainfall, and the cycle

repeats. Scientists hope

that by creating enough

where this application of knowledge achieved a real outcome. Large green swaths, planted by landowners working altitudes reduces the together. transported additional rainfall onto land that had once been drawing air upward from

below, creating areas of desert. Sophia Bielenberg, low pressure at lower indigenous altitudes. These, in turn, who uses Abenaki "no-till" farmdraw moist air inland. By these actions, large ing methods to grow green spaces serve as "bifood crops in Calais, VT, otic pumps" — with pres-

three-dimensional meadshared her success. Used ow in the sky." Suggested from the mid-1600s to the sure differentials strong enough to power wind mid-1800s, these methods trees that support insect support soil sustainabilicurrents that transport

ty, and without power or

added water, yield abun-

Michaelson.

Conserva-

dantly year after year.

Julie.

Pollinator

ing. in a process called evapotranspiration, moistening the surrounding air. Over large green spaces such as forests, moist air rises, reaches a certain height, condenses, and falls as rain. This change from gas to water at high

Xerces Society, shared myriad ways that individual landowners can create cooler temperatures and increase biodiversity. Here again,

tion Specialist at the

pollinators are oak, hick-

ory, and linden. Shrubs

also suggested for this

purpose were viburnum.

dogwood, and low bush

blueberry.

example, dill, cilantro, we learned about the and mint attract ladvbugs, the larvae of which importance of planting trees. Deciduous trees destroy aphids, a lupine create a leaf canopy that predator.

Other tips: if fallen lowers the surrounding leaves are left on the air temperature- evapotranspiration at work. landscape (instead of being removed in bags or Native trees provide inchopped up), they create sects with three essenoverwintering tial needs: food, shelter, and habitat for raising for many species. Stems

allowed to remain on holvoung. Why help inlow-stemmed plants (for sects? Contrary to popuexample, bee balm and lar belief, although bees are pollinators, insects Joe Pveweed) in alternating lengths between eight that are not bees comprise the majority of this group. For them, a native tree in bloom becomes "a

and 24 inches create nesting habitat for bees. Xerces.org is a well-supported website for learning how to help pollinators. Zorvan Ivakhiv-Grav

habitat

Some insects not only

pollinate, but also con-

trol pests, and support-

ing them helps minimize

predation on potentially

vulnerable species. For

shared about Pollinator Friendly Greensboro, a community group working to help the town of

Greensboro, Vt. become a

National Wildlife Federa-

we were asked, "Will you do something, or nothing?" These knowledgeable, impassioned presenters energized all who

attended to think further

tion-certified community

At the end of the day.

wildlife habitat.

about how we can help create "winds of change" in the world around us. The Peacham Agrari-

an Society is looking for new members to help strategize and host educational evenings on science related to ecosystems, food, compost, the biotic pump, biodiversi-

ty, and climate. Those

interested, please contact ellenblachly@gmail.com The Littleton Garden

Club is made up of individuals from around the area that are interested gardening, nature,

community, learning and having fun. New members are welcome. For more information, visit our Web site at: https://

www.littletonnhgarden-

club.org/.