

# GREEN INFRASTRUCTURE AT DUKE FARMS EDUCATIONAL LANDSCAPE TOUR

9am-12 noon Saturday, July 15, 2017 | Optional on-site sketching 1-4pm.

DUKE FARMS, Hillsborough, New Jersey | [WWW.DUKEFARMS.ORG](http://WWW.DUKEFARMS.ORG)

3 CEUs pending approval: New Jersey and LACES

Join us for a morning tour of Duke Farms to see elements of green infrastructure in its recently renovated architecture and landscape. Optional: Stick around for lunch and an afternoon of sketching on the Duke Farms campus. Join members of the New Jersey Urban Sketchers from 1pm - 4pm.

## TOUR SCHEDULE

Please arrive by 8:45am to park and gather for the tour at the Visitors Orientation Center. Parking is available nearby.

Tour includes a presentation by Michael Catania, Executive Director of Duke Farms, on the sustainable and green infrastructure components at Duke Farms, particularly in the area of their LEED Platinum Visitors Orientation Center. Our visit continues with a walking tour of the campus to see these components on site.

Mr. Catania oversees all day to day operations of Duke Farms, and a staff of 45 year round employees. As former Executive Director of the The Nature Conservancy, he was instrumental in preserving some 45,000 acres and creating a system of 36 nature preserves. He also served as Deputy Commissioner of the New Jersey Department of Environmental Protection under two Governors and three Commissioners.

## ELEMENTS TO BE COVERED:

- 1. Waste water treatment:** See how Duke Farms treats and purifies waste water from six buildings with constructed wetlands, native plants and microbes. The resulting purified water is then discharged to recharge the groundwater through re-infiltration fields on site.
- 2. Bioswales:** See how swales planted with native vegetation along roads and parking lots collect and treat storm water. This vegetation helps to break down and digest roadway pollutants to the benefit of nearby streams and groundwater. Discuss plant materials, installation and maintenance.
- 3. Permeable paving:** See how on-site permeable paving reduces surface storm water flows and recharges the groundwater. Discuss paving materials, construction and maintenance.
- 4. Rainwater harvesting:** See how Duke Farms collects rain water from the roofs of campus buildings and where they direct it for irrigation and other uses. Discuss integration of harvesting systems with architecture and other structures.
- 5. Green roof:** Understand the role that a green roof, rain gardens and rain barrels can play in collection and storage of storm water. Discuss construction, plant selection and maintenance.
- 6. Renewable energy:** Show how both solar photovoltaic electricity and a geothermal heating and cooling system have been integrated in to the building design and the surrounding landscape. Discuss siting and maintenance issues.
- 7. Permaculture & community gardens:** Discuss the design and purpose of an extensive permaculture garden, as well as the design and function of a significant community garden program which consists of 462 plots, including several fully accessible plots. Learn about the infrastructure and maintenance needed to support these landscape features.

REGISTRATION IS LIMITED  
TO THE FIRST 25 REGISTRANTS.

REGISTRATION DEADLINE IS JULY 12, 2017

## LEARNING OBJECTIVES:

1. Understand the process of renovating existing structures and landscapes to achieve green infrastructure goals and how they are measured.
2. Understand how Duke Farms created an integrated design team of architects, landscape architects, engineers and other professionals for this project.
3. Observe how green infrastructure components are maintained and how the design process anticipates maintenance needs.
4. Learn how green infrastructure components such as those at Duke Farms can have an educational and awareness impact on surrounding communities.

## WHAT TO WEAR AND BRING ALONG:

Casual dress and comfortable shoes for walking. Fashionable sunhats hats are optional. Cameras. For sketching bring along your favorite sketchbook (hard-bound recommended), your preferred drawing tools (pencils, pens, markers, colored pencils, watercolors). A lightweight folding stool can make your time drawing more comfortable. Restrooms are available.

## REFRESHMENTS AND LUNCH:

The café at the visitor's center is open for coffee and light fare in the morning. Lunch on your own— a lunch menu featuring locally grown ingredients is available.

## TRAVEL AND DIRECTIONS:

Address: 1112 Dukes Parkway West, Hillsborough, N.J. 08844

Refer to [www.dukefarms.org](http://www.dukefarms.org) for further travel information.



## REGISTRATION:

\$25.00 NJASLA Member  
\$35.00 Non-ASLA Members

**MAIL THIS REGISTRATION FORM TO ARRIVE AT NJASLA OFFICE PRIOR TO JULY 12, 2017.**

Name:

Address:

Email address:

Phone:

Check enclosed    OR     Credit card payment

Visa    OR     Mastercard

Name on the card:

Card Number:

Security code:

Expiration date:

Billing address if different than address above:

**MAKE PAYABLE TO NJASLA AND MAIL TO  
414 RIVER VIEW PLAZA, TRENTON, NJ 08611**

Registration is limited to the first 25 registrants. Registration deadline July 12, 2017.

**QUESTIONS?** Contact Jeff Charlesworth at [jeffreycharlesworth@gmail.com](mailto:jeffreycharlesworth@gmail.com)