

2022

STORMWATER INNOVATION

E X P O

*November 30, 2022
Roger Williams Park*



RHODE ISLAND
GREEN INFRASTRUCTURE
COALITION

Please
recycle
me!

Hosted by the Rhode Island Green Infrastructure Coalition, the Stormwater Innovation Center, the American Planning Association Rhode Island, The Rhode Island Public Works Association, and the Providence Parks Department



11/30/22

Welcome to our Fourth Annual Stormwater Innovation Expo!

Today is designed to be educational and informative – but more importantly, it is an opportunity to build meaningful connections between advocates and doers in the green infrastructure field.

We are at a pivotal time in our state's environmental history. Big changes are on the way, with incoming funding from the President's Bipartisan Infrastructure Bill, the passage of the 2021 Act on Climate, efforts to expand offshore wind – and legislation regulating toxic PFAS chemicals, pesticides, and outlawing plastic bags.

Much has been done to protect our climate and there is still so much left to be done. We must work together to leverage federal, state, and municipal funding and financing for natural infrastructure and stormwater management. Our organizations and districts do not operate in silos, we all must collaborate and share resources in order to create a sustainable environmental future for our community.

Thank you so much to our sponsors and exhibitors for making today possible and thank YOU for being here!

A handwritten signature in black ink that reads "S. Churgin".

Sara Churgin
RIGIC Executive Committee

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Morning Program

- 8:30-9:00 Check-in, Light Breakfast, and Exhibits Open
- 9:00-9:15 Welcome, Second Floor Ballroom
Jed Thorp
Rhode Island Clean Water Action
- 9:15-9:30 Keynote Remarks
Senator Jack Reed (video)
Governor Dan McKee (video)
- 9:30-10:15 Presentation and Q&A
Topic: Bipartisan Infrastructure Law

Kim Koriath
Stormwater & Resilience Analyst, RI Infrastructure Bank
- 10:15-10:45 Coffee Break and View Exhibits
- 10:45-12:00 Panel and Q&A, Second Floor Ballroom
Topic: Stormwater Funding & Financing Opportunities

Tom Ardito
Director, SNEP Watershed Implementation Grants

Karen Bradbury
Office of Senator Sheldon Whitehouse

Alisa Richardson
RIDOT, Office of Stormwater Management

Chris Farrell
Senior Advisor, Office of the Rhode Island Governor

Priscilla De La Cruz (Moderator)
Rhode Island Audubon
- 12:00-1:00 Lunch and View Exhibits

Lunch Made Possible by Ferguson Waterworks

Afternoon program continued next page...

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Afternoon Program

Made Possible by Horsley Witten Group

The afternoon sessions will take place throughout the park and cover a wide range of topics. Please choose one session per half hour time slot. Presentations are 15 minutes each.

Volunteers will help guide you to the correct locations.

1:15PM

Area	Topic	Presenter
C	Water, Arts Festivals, and Murals: Bringing the Community into the People's Park	Kevin Essington & José Ramirez, Roger Williams Park Conservancy
B	BMP Design Basics – Drainage Areas and Sizing	Greg Avenia, Project Manager, Kleinfelder
A	Grey to Green/Lawn to Wetland: Roger Williams Park and the Constructed Wetland	Brian Kuchar, Principal Landscape Architect, Horsley Witten Group



Scan for
interactive
map!



Afternoon Program

Made Possible by Horsley Witten Group

1:45 PM

Area	Topic	Presenter
D	Buffer Restoration: Another Tool in the Stormwater Management Toolkit	Elizabeth Scott, Consultant, & Wenley Ferguson, Director of Restoration, Save the Bay
E	Restoring the Waters of Roger Williams Park: Polo Lake Pilot	Art Gold, Professor & Associate Director, URI Coastal Institute
B	BMP Monitoring Methods - Advanced to Simple	Ryan Kopp, Manager, Providence Stormwater Innovation Center

2:15 PM

Area	Topic	Presenter
I	Lessons Learned on Inlet Structures and Roadway Grading	Brian Byrnes , Deputy Superintendent, Prov. Parks
C	Monitoring Criteria for Cyanobacteria	Heather Kinney, Coastal Restoration Scientist, The Nature Conservancy
G	Ecosystems in Green Infrastructure	Lee Ann Freitas, Director, Roger Williams Park Botanical Center

2:45 PM

Area	Topic	Presenter
H	Choosing the Right Permeable Paver for Your Solution	Mike Everhart, Stormwater Specialist, EJ Prescott, Inc.
F	Sediment Removal Driven by Best Maintenance Practices and Design	Brian Byrnes, Deputy Superintendent, Providence Parks Department
J	Stormwater Inlet Types: Assessing their Function & Maintenance Needs	Wenley Ferguson, Director of Restoration, Save the Bay



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About The RI Green Infrastructure Coalition

The Green Infrastructure Coalition (GIC) includes not-for-profit organizations, architects, designers, builders, city planners and state and local policymakers as partners, who work together to promote nature based solutions for cleaning runoff pollution. Nature based solutions create pathways for rainwater, melting snow, and other run-off to avoid pavement and infiltrate into the earth.

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Nature is at work here!

We're creating a healthy community! This site uses nature to clean dirty stormwater and reduce flooding.

www.greeninfrastructure.org



Clean

The rain garden captures street dirt and other pollutants. It lets the rain water seep into the ground to recharge the Woonasquatucket River.



Protect

Alleviate rain and mitigate flooding.



Economy

This beautifies the area and provides a place for residents and businesses. Green space increases property values for everyone.



San Souci Connector Rain Gardens

This site used to be a big parking lot, but it was changed to be better for people and wildlife. All the dirty water from the parking lot used to wash straight into the river. This path and garden now create a walkway that also cleans water, leading from Olneyville Square to the Woonasquatucket River. The brick around the walkway and the garden collect and filter dirty rain water that washes off the parking lot, making the river cleaner and Olneyville greener.

Cool

Permeable hard surfaces that don't heat. Adds plants and trees that provide shade for people and wildlife.



Wellness

Provides cleaner air and places to rest outdoors, encouraging people to nature in the city.



Habitat

Attracts and feeds plants, birds, butterflies, bees and birds. Butterflies and bees are really important to local farmers who provide fresh food.



Update on the 2021 Bipartisan Infrastructure Law

On November 15th, 2021, President Biden signed the Bipartisan Infrastructure Law. This bill is a historic opportunity to rebuild America's roads, bridges and rails; expand access to clean drinking water; ensure that every American has access to high-speed internet; to tackle the climate crisis and advance environmental justice, while investing in communities – both urban and rural – that have too often been left behind. This effort will make long overdue improvements for our nation's infrastructure; drive the creation of union jobs with high labor standards that can be accessed by all workers; and grow the economy sustainably and equitably for decades to come.

A few uses of the money:

1. National Estuary Program Grants Federal Agency

Total Funding: \$132,000,000

The National Estuary Program goal is to protect and restore the water quality and resources of estuaries and associated watersheds designated by the Environmental Protection Agency Administrator as estuaries of national significance.

2. Southeast New England Coastal Watershed Restoration Program

Total Funding: \$15,000,000

Fostering collaboration among regional partners across southeast New England's coastal watersheds to protect and restore water quality, ecological health, and diverse habitats by sharing knowledge and resources, promoting innovative approaches, and leveraging economic and environmental investments to meet the needs of current and future generations.

3. Clean Water State Revolving Fund Federal Agency

Funding amount: \$11,713,000,000

The Clean Water State Revolving Fund program is a federal-state partnership that provides communities low-cost financing for a wide range of water quality infrastructure projects.

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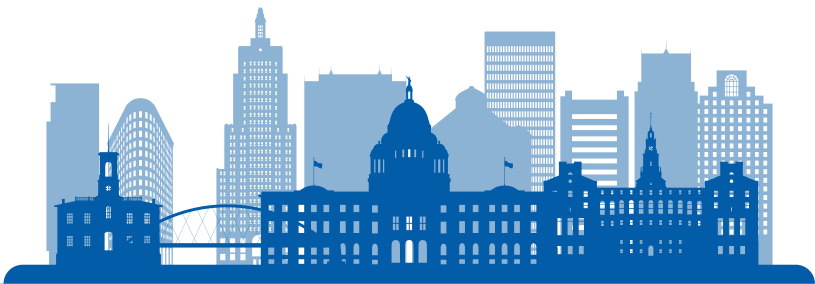
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RI Green Infrastructure Coalition Members

Aquidneck Land Trust	Norman Bird Sanctuary
Audubon Society of RI	Pawtuxet River Authority
BETA Group, Inc.	Providence College
Blackstone Parks Conservancy	Rhode Island Foundation
Blackstone River Coalition	RI Builders Association
Blackstone Valley Tourism Council	RI Coastal Resources Management Council
Blackstone Watershed Collaborative	RI Department of Environmental Management
Brewster Thornton Group Architects	RI Department of Health
City of Newport	RI Environmental Education Association (RIEEA)
City of Providence	RI Infrastructure Bank
Clean Ocean Access	RI Nursery & Landscape Assc.
Clean Water Fund	Office of the Governor
Coalition Center for Environmental Sustainability	Save Sand Pond
Conservation Law Foundation	Save the Bay
Eastern RI Conservation District	Save The Lakes
Filarski Architecture	Sierra Club
Friends of the Moshassuck	The Nature Conservancy
U.S. Green Building Council RI	The Trust for Public Land
Groundwork Rhode Island	Tremco
Grow Smart Rhode Island	URI CRC/RI Sea Grant
Horsley Witten Group	URI NEMO
Janice Schmidt Landscape Design	URI Outreach Center
Mass Audubon	Wood Engineering
Narragansett Engineering Inc.	Woonasquatucket River Watershed Council
NBNERR	Office of Senator Whitehouse



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- Capital Improvement Planning / Asset Management (GIS, Inventory, Field Data Collection)
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StormTree Tree Filter Systems



Year 2



Year 3



Year 4

DrainGarden®



The Urban Raingarden® designed for highly impervious areas such as sidewalks, parking lots, and open plazas with the primary purpose of being maintenance friendly and providing long-term stormwater management functionality

U.S. Patent Nos. 8,333,885/10,563,392/11,124,959B2 • European Patent No. 3347523 • Other patents pending

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