

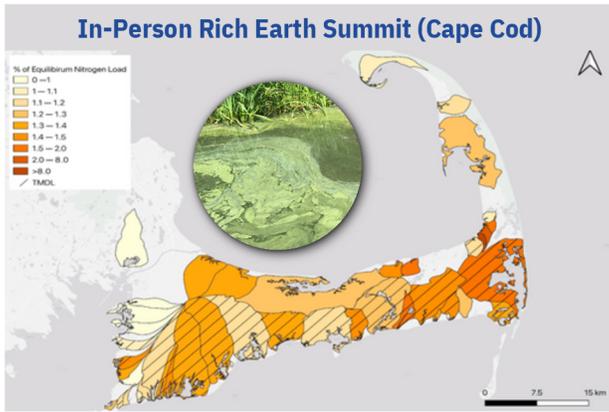


11th Rich Earth Summit for Urine Diversion on Cape Cod

Exploring urine diversion as a cost-effective way to prevent nutrient water pollution while contributing to sustainable agriculture, water conservation, and climate resilient infrastructure.

October 15-16

Co-hosted at: Massachusetts Alternative Septic System Test Center & The Green Center



Join the Rich Earth Summit for two immersive days of learning, discovery, and collaboration. Explore regulatory pathways and municipal planning processes. Engage in workshops, exhibits and tours highlighting urine diversion and composting systems in action—from homes and gardens to farms and community projects. The **Rich Earth Institute** is delighted to partner with both the **Massachusetts Alternative Septic System Test Center (MASSTC)** and **The Green Center** to offer two diverse days of programming.

Day 1 – Planning Pathways for Urine Diversion

Wednesday, October 15, 9–5 ET at MASSTC, Sandwich, MA

Explore technology options, costs, regulatory pathways, and updates from Cape Cod pilot projects. A featured panel discussion moderated by Scott Horsley will consider urine diversion as a tool in the toolbox of wastewater nutrient pollution prevention options. Afternoon tours will showcase advanced Innovative Alternative (I/A) septic systems and innovative urine recycling technologies.

Day 2 – Fertilizing the Grassroots: Urine Diversion in Practice

Thursday, October 16, 8–6 ET at The Green Center, East Falmouth, MA

Gain practical knowledge about urine diversion and recycling through presentations, demonstrations, tours and workshops. A toilet exhibit will feature a wide range of urine diverting and compost toilets, as well as installation experts. Connect with neighbors and national leaders while exploring strategies for ecological toilet systems.

Thank you to our Summit Sponsors:

LIXIL

BRIGHTWATER TOOLS

wasted*



250 Participants,
30 Countries at the
2024 Summit

The online component of the Rich Earth Summit will be held on November 12-14 with participants from around the world.

Day 1: October 15 at MASSTC



8:40 Arrive & Sign-in

9:20 - 10:20 Tools in the Toolbox: Urine Diversion and Beyond



Abe Noe-Hays

Rich Earth Institute Research Director & Co-founder; Brightwater Tools CTO

10:20 - 11:20 Nutrient Management Options & Costs: Panel Discussion



Scott Horsley

Horsley Consulting



Lynn Broaddus

Water Environment Federation
President Emeritus, Broadview
Collaborative



Brian Baumgaertel

Director of MASSTC



Bruce Walton

NEWEA I/A Onsite
Wastewater Treatment
Systems Task Force Chair



Abe Noe-Hays

Rich Earth Institute Research
Director & Co-founder;
Brightwater Tools CTO

11:20 - 11:50 Regulatory Pathways for Urine Recycling in Massachusetts



Conor Lally

Nutrient Networks, Urine
Diversion Regulatory Consultant



Mathew Lippincott

University of Michigan, Urine
Diversion Regulatory Consultant

11:50 - 12:30 Falmouth pilot project update & potential future role of urine diversion in watershed plans



Bryan Horsley

MASSTC Project Assistant, Falmouth Pilot Project Planning

12:30 - 1:30 Lunch provided by Fresh Roll Food Truck

1:30 - 1:50 Unlocking EcoSan Tools for Affordable Housing



Talitha Abramsen

Housing Resources Manager of Lower Cape Housing and
ADU Resource Center

1:50 - 2:30 Toilet Talks



Wasted* Toilets & Services

Benson Colella
Wasted* Engineer



**NASA-Inspired Technology
to Disrupt Sanitation**

Diana Yousef
Founder, CEO
change:WATER Labs



**Experiences with UD Installation,
Operation & Maintenance**

Arthur Davis
Operations Director, Rich Earth
Institute

2:30 - 4:30 Rotating Tours of MASSTC and Partner Urine Diversion Technologies

FREE

- Vacuum flush composting system & waterless urinal installation
- Innovative/Alternative (I/A) septic systems
- Greywater recycling system
- Wasted* Toilet Tour
- Brightwater Tools mobile unit of urine treatment technologies



Kim Nace

Brightwater Tools CEO

Day 2: October 16 at The Green Center



8:00 Arrive & Sign-in

8:40 - 9:20 The History of New Alchemy, the Green Center and Urine Diversion

9:20 - 10:50 Peecycling: Home-scale and Community-scale

Hilda Maingay and Earle Barnhart

The Green Center ("Cape Cod's 'power couple of pee-cycling'" ~ WBUR)



10:00 - 12:30 Toilet Installation Tours

Guided by toilet installation experts, these tours will feature toilets at the Green Center and a neighboring home.

Toilet Exhibits

Featured toilets will include: Nature Loo, Full Circle, Separett, Toilets for People 'Sit to Pee' toilet, Thinktank, The Green Center's P-POD, Cinderella, Changewater Labs; **Toilet Installers:** Ben's Bins, Point of Shift, Nutrient Networks



Ben Goldberg
Ben's Bins



Conor Lally
Nutrient Networks



Kelsey McWilliams
Point of Shift



Jason Kass
Toilets for People



Diana Yousef
change:WATER Labs



Kim Nace
Brightwater Tools CEO

12:30 - 1:30 Lunch provided by Devour Catering

1:30 - 2:00 Room A: Seeing the Invisible: Educating About Water, Waste, and Nutrient Cycles



Hayley Joyell Smith
Warren Wilson College, PHLUSH

Room B: Unlocking Regulatory Pathways to Scaling Urine Recycling



Lesli Hoey
Urban & Regional Planning,
University of Michigan

2:00 - 3:30 Room A: Flush the Stigma: Designing Awareness for Emergency Sanitation

Room B: Network-building and Planning for Urine Diversion

Topics include:

- Communications & outreach
- Affordable housing & pilots
- Watershed planning



FlushED Team: Martha Merson, Nickolay Hristov, Betsy Towns, Shawn Shafner, Jolie Gutentag
TERC, UNC School of the Arts, The POOP Project, Pepperdine University

3:30 - 4:50 Urine Fertilizer in Gardens & Farms

25 Years of Gardening with Human Waste Fertilizers - Hilda Maingay and Earle Barnhart

Rich Earth Institute Farm & Garden Guides - Tatiana Schreiber

Bringing Wasted*'s urine derived products to market, wins and challenges - Wasted*

Using diverted human urine to build long-term soil health - John Culpepper

From Yellow to Blue: Exploring Indigo Cultivation and Fermentation with Liquid Gold - Rosi Olivan



Tatiana Schreiber
Social Research Director,
Rich Earth Institute



Rachel Binstock
Wasted* Chief of Staff

5:10 - 5:30 Tour of The Green Center's large residential gardens fertilized with urine, composted solid waste, kitchen and landscape wastes

Hilda Maingay and Earle Barnhart



Rosi Olivan
The Putney School,
itequiya lab



John Culpepper
Compost for Good

5:30 - 6:00 Tour of the Coonamessett Farm's EcoDrum (In-vessel Composter)

6:00 - 8:30 Banquet at Coonamessett Farm: Harvests of the Rich Earth Summit

The Summit will culminate in a community meal to keep the conversations flowing and spark new collaborations. The evening will be emceed by Shawn Shafner, artist, educator and activist of The People's Own Organic Power Project. Together, we'll engage in creative explorations of the futures we hope to cultivate for the waterways and farms that sustain us. The evening will be hosted in Coonamessett Farm's beautiful venue space, just next door to the Green Center.

Shawn Shafner

The The People's Own Organic Power (POOP) Project

