

2023 NEXTCYCLE MICHIGAN SHOWCASE

APRIL 20, 2023

TECHTOWN DETROIT INDUSTRY INNOVATION CENTER



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MICHIGAN

BUILDING A
ROBUST CIRCULAR
ECONOMY THROUGH
PARTNERSHIP &
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Welcome to the 2023 NextCycle Michigan Showcase. Entrepreneurial businesses, non-profits, municipalities, universities, and community organizations have received months of business and technical support, mentoring, and planning to accelerate their projects to a stage ready for investment and implementation. Today you have the opportunity to learn about these ground-breaking projects focused on waste prevention, material reuse, recycling, composting, or use of recycled content that will advance the circular economy for Michigan. Judges will be evaluating the pitches and a total of \$15,000 will be awarded to the winning teams.

Learn more about NextCycle Michigan at www.NextCycleMichigan.com

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MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

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REGISTRATION	9:30am - 10:00am <i>Atrium Lobby</i>
WELCOME & KEYNOTE	10:00am – 10:45am <i>Auditorium</i>
<p>Welcome <i>Matt Flechter, Michigan EGLE</i> <i>Julie Staveland, Michigan EGLE</i></p>	<p>Keynote Speaker <i>Jack Akinlosotu, Director of the Office of Sustainability, City of Detroit</i></p>
ADVANCED MATERIALS PITCHES	10:45am – 12:00pm <i>Auditorium</i>
<p>Teams:</p> <ul style="list-style-type: none"> • Plastus • Bioenergy Project • NioMin • Harvest Nano • SCOPS Coating Technologies 	<p>Judges:</p> <ul style="list-style-type: none"> • Nadia Abunasser, Michigan Economic Development Corporation • Prem Bodagala, Red Cedar Ventures • Jessica Loding, Schupan • Divya Patil, NSF
NETWORKING LUNCH	12:00pm – 1:00pm <i>Atrium</i>
FOOD WASTE SYSTEMS PITCHES	1:00pm – 2:15pm <i>Auditorium</i>
<p>Teams:</p> <ul style="list-style-type: none"> • Metro Food Rescue • My Green Michigan • Partridge Creek Farm • City of Ferndale • Scrap Soils 	<p>Judges:</p> <ul style="list-style-type: none"> • Aaron Hiday, Michigan EGLE • Dan Schoonmaker, West Michigan Sustainable Business Forum • Lindsey Walker, Emmet County Recycling • Renee Wallace, Doers Consulting/FoodPLUS Detroit/ReMark
BREAK	2:15pm – 2:30pm <i>Atrium</i>
RECYCLING PROCESSING INNOVATION PITCHES	2:30pm – 3:45pm <i>Auditorium</i>
<p>Teams:</p> <ul style="list-style-type: none"> • Post Rock • Duro-Last Roofing • Second-Life Solar • Goodwill Association of Michigan • American Classic Dumpster Services 	<p>Judges:</p> <ul style="list-style-type: none"> • John Chalifoux, Association for Sustainability Manufacturing MERA • Ray Hugel, Closed Loop Partners • Allan Newman, Recycle Ann Arbor • Paul Riser, Ralph Wilson Foundation
NETWORKING RECEPTION	3:45pm – 4:15pm <i>Atrium</i>
AWARD CEREMONY & CLOSING REMARKS	4:15pm – 5:00pm <i>Auditorium</i>

SPEAKER BIOGRAPHIES

Jack Akinlosotu, Director of the Office of Sustainability, City of Detroit



Jack Akinlosotu is Detroit's new Director of the Office of Sustainability. He is a native of Sacramento, California, and has spent the last seven years in Washington, D.C., working on climate change solutions in both the public, private, and non-profit spaces. He worked on renewable energy and clean transportation programs at the D.C. Department of Energy & Environment, along with an EDF Climate Corps Fellowship with the New York Mayor's Office of Sustainability. He is also a Fellow at the Clean Energy Leadership Institute (CELI) and a George Washington University Sustainable Urban Planning Program graduate. He lives on the East side of Detroit.

Matt Flechter, Market Development Recycling Specialist, Michigan EGLE



Matt Flechter assists recycling programs by growing the Michigan supply chain so the valuable commodities that businesses need make their way from the curb to new products. He is a former member of the Michigan Recycling Coalition board of directors and the former chair of the Mid-America Council of Recycling Officials. Flechter completed the Great Lakes Leadership Academy Advanced Leader program in 2017. Flechter is a graduate of Michigan State University's College of Lyman Briggs and is always surprised by the number of other Peace Corps volunteers in the recycling world. For 22 years, he has worked to transform materials once thought of as waste into jobs, energy savings, and improved quality of life. He has always viewed recycling as a gateway to environmental, economic, and social sustainability where individuals can see the positive impact of their daily decisions.

Julie Staveland, Assistant Division Director, Materials Management Division, Michigan EGLE



Julie Staveland is the Assistant Division Director for the Materials Management Division (MMD) within the Michigan Department of Environment, Great Lakes and Energy (EGLE), and Director of the State Energy Program. She is responsible for administering energy, pollution prevention, and recycling grant and technical assistance programs. Programs range from energy efficiency and renewable energy, food waste reduction, recycling infrastructure, the electrification of medium and heavy-duty vehicles, to installing electric vehicle charging infrastructure throughout the state and includes establishing program objectives, goals, and priorities, and determining operating policies and implementing methods within the context of federal, EGLE, and MMD policies, procedures, and guidelines. Julie also coordinates the Catalyst Communities Initiative. Born and raised in Michigan, Julie lived in Alaska for 18 years where she received a master's in public administration from the University of Alaska Southeast. Julie is passionate about working with communities and businesses to meet them where they are on their decarbonization journey and to help them prepare for a sustainable future.

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TEAM BIOGRAPHIES ADVANCED MATERIALS & DESIGN



Bioenergy Project is developing a micro-scale, modular organic waste management system that can digest or compost food scraps and/or wastewater to produce energy, nutrient rich plant food and clean water. This decentralized, low-cost approach to organic waste management can provide new solutions for remote locations and can even be deployed to developing countries as a part of disaster response.

<https://sites.google.com/view/the-bioenergy-project/home>



Harvest Nano is recovering and converting biomass waste into valuable nanocellulose products.

NIOMIN

NioMin supplies materials for new batteries through processing spent batteries and mining waste products.



Plastus is a biotech start-up that converts organic waste into PHA – a biodegradable bioplastic that can replace virgin plastics or PLA in many different applications. The utilization of PHA from waste feedstock as a plastic alternative can significantly reduce lifecycle embodied carbon emissions, while mitigating harm from mismanaged materials that leak into the environment.

www.theplastus.com



SCOPS Coating Technologies is developing heat-sealable coating technology for paper to replace single-use plastic packaging.

www.scopscosting.com

FOOD WASTE SYSTEMS



The City of Ferndale is working to expand its food waste diversion program from residents and businesses as part of its climate action plan to reduce greenhouse gas emissions. In addition to expanding access to collection and drop off, the city is planning to develop a compost site to process the waste within the city limits in order to streamline the process and make the program cost effective.

www.ferndalemi.gov



Metro Food Rescue is solving multiple big problems at once – food waste and food insecurity. They turn wasted food into meals for those in need within the metro Detroit area. Following early success since its inception in 2020 the non-profit organization is poised to expand and improve current operations while supporting a growing network of food rescue operations in Michigan and beyond.

www.metrofoodrescue.com



My Green Michigan is an established but growing organic collection and composting operation with service ranging across the state from Detroit to Grand Rapids. As a partnership between Spurt Industries and Hammond Farms they are well positioned to expand into available capacity. They are seeking to grow their customer base including restaurants, municipalities, events, and institutions.

www.mygreenmi.com



Partridge Creek Farm is expanding its composting operation in the Upper Peninsula to accommodate large institutional generators in the region including Northern Michigan University and the City of Ishpeming. This ambitious plan has local



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stakeholder support and the potential to expand across the U.P.
www.partridgecreekfarm.org



Scrap Soils is developing a community-scale organics collections and composting operation in the Detroit region that focuses on serving multi-family and commercial generators. Through local partnerships, Scrap Soils creates a compost product that can improve soil health for gardeners and urban farmers while reducing carbon emissions from landfilled food waste.

www.scrapsoils.com

RECYCLING PROCESSING INNOVATION



American Classic Dumpster Services is building a material recovery facility (MRF) to process construction and demolition materials and recyclables in rural Michigan.

www.americanclassic.us



Duro-Last Roofing is establishing infrastructure to increase recycling and diversion of PVC construction materials and increase the circularity of the products in Michigan.

www.duro-last.com



Goodwill Association of Michigan is designing textile recycling technologies and hub systems to build a stronger, local circular economy.



Post Rock - University of Michigan Taubman College is engineering a new building facade product from upcycled post-industrial plastic waste.

SECOND-LIFE SOLAR

Second-Life Solar is creating a model to divert solar energy components by refurbishing and reusing panels, and recycling end-of-life components.

www.michiganenergyoptions.org



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SHOWCASE SPONSORS

Thank you to our generous sponsors! The following organizations are supporting the NextCycle Michigan Showcase and helping to accelerate projects that will improve Michigan's circular economy.



Working side-by-side with partners at local, regional, state and federal levels, the Michigan Department of Environment, Great Lakes, and Energy (EGLE) safeguards our state's environment while supporting the economic growth and development crucial for Michigan's future.

www.michigan.gov/egle



The Centrepolis Accelerator is accelerating the growth of Michigan's advanced manufacturing, innovative hardware entrepreneurs and small manufacturers by providing access to funding, experts and key business and product development resources.

www.centrepolisaccelerator.com



Dow is a science and technology company with a commitment to investing in strategically important opportunities. Dow Venture Capital invests across multiple business segments and markets. They are focused on pursuing strategic investments in attractive start-up companies around the world that enable and accelerate Dow's business growth and value. Thanks to deep customer insights and relationships, Dow has extensive reach and knowledge, with industry-leading positions in diverse, high-growth sectors.

www.corporate.dow.com/en-us/about/venture-capital.html



The Michigan Recycling Coalition fosters sustainability by leading, educating, and mobilizing business, government, nonprofit, and individuals to advance their own and collective resource use and recovery initiatives in Michigan.

www.michiganrecycles.org



Resource Recycling Systems (RRS) is a sustainability and recycling consulting firm serving public, private, and non-profit organizations. RRS has strengths in materials and recovery, life cycle management, applied sustainable design, and collaborative action development.

www.recycle.com