

## Casting new light on solar



The first to hold a Ph.D. in sustainability from RIT, Annick Anctil (Ph.D., '11) is an associate professor of civil and environmental engineering at Michigan State University. In this Q&A, she describes her work to find opportunities to make the production, use, and recovery of solar panels more sustainable.

[Read more](#)



### Want to cut carbon? Think like a remanufacturer.

#### Five lessons for prospering in the carbon-free economy

More than 150 business leaders and sustainability experts gathered in Springfield, Missouri, for the sixth RIC-RIT World Remanufacturing Conference (WRC). [Read More](#)



### Novel press design delivers results

#### Making more bars without lowering the bar on taste and nutrition

Buffalo-based Jeca Energy Bars partnered with GIS to develop a prototype press to improve overall productivity without sacrificing the company's original recipe. [Read More](#)



### Goal to divert food waste quadrupled

#### Program helped businesses offset CO2e of a car circling globe 8K times

The Food Waste Reduction and Reimbursement Program—an initiative of New York's Empire State Development—kept 125K tons of food waste out of landfills. [Read More](#)

## Upcoming Events

### RIC-RIT World Remanufacturing Conference >

*Breakthrough Reman: Rethinking Operations, Technology, and Supply Chains*

September 10–12, 2024 (Chicago, IL)

REGISTRATION OPEN



## Recent Faculty Research

#### "Material needs for electric mobility transitions"

Callie Babbitt (co-author)  
Shahana Althaf (co-author and 2020 GIS Ph.D. graduate)

#### "Rural electrification subsidy estimation: a spatial model development and case study"

Nathan Williams (co-author)  
Lefu Maqelepo (co-author and GIS Ph.D. candidate)

#### "Biochar as a sustainable alternative to carbon black in agricultural mulch films"

Thomas Trabold (primary investigator)  
Y.D. Hernandez-Charpak (co-author and 2024 GIS Ph.D. graduate)

#### "Forecasting revenue from primary and secondary sources of rare earth elements"

Eric Willaims (co-author)  
Ajay Gupta (co-author and 2023 Ph.D. graduate)

## Video Spotlight

### Closing the digital divide by keeping laptops out of landfills



Thanks to a grant through the New York State Pollution Prevention Institute (NYSP21), Shift2 refurbished 100 laptops and distributed them to 275 individuals in an environmental justice community, offsetting 475 lbs of e-scrap.

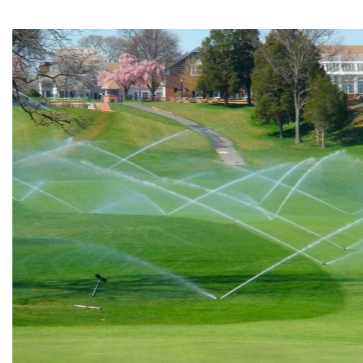
## New Tools and Resources



### Industry 4.0 resources >

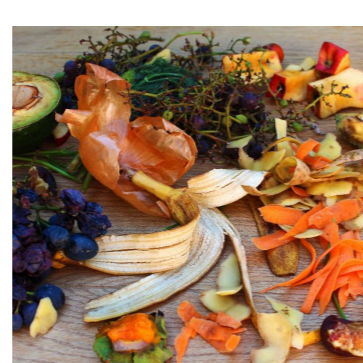
Take your first steps towards a digital future using our growing library of I4.0 resources:

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- **I4.0 Playbooks:** Lessons for getting started with eight in-depth case studies
- **Videos:** Firsthand walkthroughs of key I4.0 process and technologies by GIS experts



### Golf Course Sustainability Initiative >

Developed in collaboration with Cornell University, this suite of tools provides best practices for golf courses regarding the use of water resources and discharge of nutrients and chemical pesticides. Recently updated with a new wash-water guide.



### Sustainable Food Waste Management Planning >

A companion guide to the NYSP21 Municipal Food Waste Toolkit and developed in collaboration with Syracuse University, this new tool provides strategies for communities looking to develop a sustainable food waste management program.



## Past Editions

[View all](#)