



# **Environmental Research & Education Foundation**

*Lighting a path to sustainable waste management practices*

## **Post-Closure Webinar** *Prepared for NEWMOA*

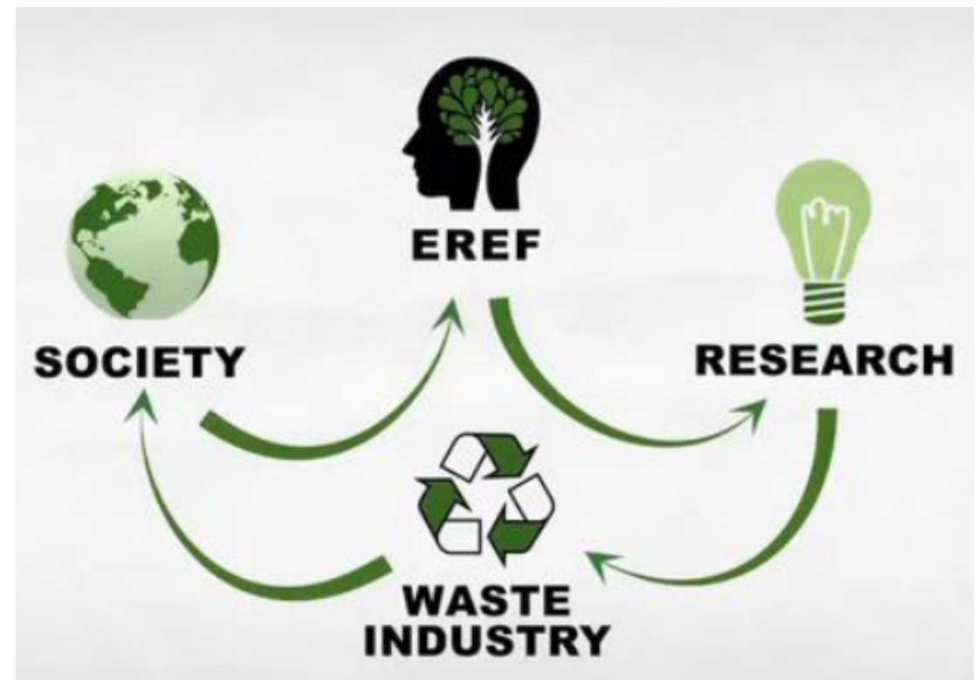
# Our History and Mission



**Environmental Research  
& Education Foundation**

*Lighting a path to sustainable waste management practices*

- Founded in 1992 as a 501(c)3 charity
- **Mission:** To direct research studies & educational initiatives for sustainable waste management practices via:
  - Research grants
  - Scholarships/Internships
  - General education



# Strategic Focus Areas



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**EREFs strategic plan addresses all areas of the integrated waste management infrastructure.**

- 1) Landfills
- 2) Equipment/Safety
- 3) Transport/Collection
- 4) Policy/Economics
- 5) Recycling/Waste Minimization (includes packaging)
- 6) Combustion/WTE
- 7) Conversion Technologies (includes composting)
- 8) Life Cycle Analysis/Inventory

# Key Programs



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- **RESEARCH** Nearly \$11 million in projects that help shape policy, develop sustainable practices, bring value, and direct the future of solid waste management
- **SCHOLARSHIPS** Educating the next generation of solid waste researchers and technical personnel – nearly 50 scholars thus far, totaling almost \$0.75 million
- **CONTINUING EDUCATION** Informing policymakers, practitioners, and others regarding cutting edge research and solid waste management practices via meetings and online continuing education (coming soon!)

# Selected Research

*(Additional Details are at: [www.erefndn.org](http://www.erefndn.org))*



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Developing environmental solutions for the future

## **Minimizing Institutional Food Packaging Waste via the Development of a Re-Usable To-Go Food Container**

Grantee: Eckerd College

Award Amount: \$32,000

## **Modernizing Data and Coefficients for Models used to Estimate Landfill Gas Production from Landfills**

Grantee: N.C. State University

Award Amount: \$110,000

## **Evaluating How Human Behavior Affects on Recycling Rates**

Grantee: University of Georgia

Award Amount: \$67,775

# Selected Current Scholars



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**Ted McMahan (Gannon)** – *Torrefaction as a process to convert organic waste to energy*



**Richa Karanjekar (Texas)** – *Improved modeling for estimating methane rates from landfills*



**Jim Levis (NC State)** – *Effects of climate change legislation on solid waste operations*



**Paige Griffin (Colorado State)** – *Evaluating microbial dynamics of anaerobic digestion for organics diversion*



**Carrie Harns (Wyoming)** – *Assessing the mobility of metallic nanoparticles through landfill liners*



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**For more details, please see our website:**

**[www.erefdn.org](http://www.erefdn.org)**