Environmental Research and Education Foundation

Developing environmental solutions for the future

OVERVIEW: The Environmental Research and Education Foundation is a public charity incorporated in Washington, D.C. in 1992. We are the only non-profit foundation in the United States that is developing and evaluating new approaches to manage municipal solid waste.

In 2006 total revenue for the year was $1,859,659 against expenses of $1,339,719. At December 31, 2006 the foundation’s net assets were $7,317,378 an increase of $856,041 over net assets at December 31, 2005.

Since the foundation began operating in 1993, $6,753,124 has been disbursed in research grants and scholarships in support of our mission to develop environmental solutions for the future.

Benchmarks achieved by the foundation during 2006 include:

- The Shaping the Future Capital Campaign raised $2,346,000 toward its objective of building the foundation’s endowment to $10,000,000; at this level the EREF will be positioned to make grants up to $1 million a year. The campaign is scheduled to conclude in December 2010.

- $597,550 was disbursed in 2006 to support solid waste research grants to various universities and subcontractors.

- The studies of six doctoral and post-doctoral environmental scientists were supported by EREF, with scholarships totaling $53,000. Current EREF scholars are studying at Carnegie Mellon University, North Carolina State University, Tufts University, University of British Columbia, University of Illinois at Chicago, and University of Texas at Austin.

- Two research bulletins were published, the first titled "EPA Tests Show that MSW Landfill Gas Quality Improving was submitted by Allied Waste Industries (courtesy of John Zillmer) and "EPA Tests Show that Landfill Gas Quality Improving was submitted by Allied Waste Industries (courtesy of John Zillmer) and Research Council to guide and prioritize the foundation’s research. During 2006, the council developed a prospectus on the benefits of council membership, a proposed governance structure, and a proposed scope of work for council members.

- On April 6th the foundation held its twelfth equipment auction at WasteExpo in Las Vegas – the event grossed $810,265 (the net return was $409,388 a decrease of $48,052 over 2005); since 1995 the auction, with equipment donations from members of the Waste Equipment Technology Association, has raised $7,851,099 for the EREF.

- On October 20th the foundation held its Fall Environmental Classic golf tournament at the TPC in Scottsdale, AZ co-hosted by Allied Waste Industries (courtesy of John Zillmer) and Republic Services, Inc. (courtesy of Jim O’Connor). This very successful event grossed $140,326! Since we began the golf fundraisers in 2003, $589,941 has been raised in support of EREF.

The Environmental Research and Education Foundation is committed to building a bridge for all stakeholders interested in advancing solid waste management practices. We look forward to vigorously pursuing this agenda throughout 2007 and beyond.

Kevin Walbridge
Chairman of the Board

M ichael J. Cagney
President and Chief Executive Officer

2006 Highlights

E R E F Research Council to guide and prioritize the foundation’s research. During 2006, the council developed a prospectus on the benefits of council membership, a proposed governance structure, and a proposed scope of work for council members.

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Kevin Walbridge
Chairman of the Board

Michael J. Cagney
President and Chief Executive Officer
GRANTS & Donors

GRANTS approved or in progress in 2006:

$92,500 to Joyce Engineering, Inc. to determine the composi-
tion, size fraction, and concentration of airborne particles
generated from construction and demolition waste processing
facilities.

$65,000 to Virginia Polytechnic Institute and State University
(Virginia Tech) for the examination of liquid addition on
cellulose and lignin degradation in bioreactor landfills.

$25,400 to the University of Central Florida for a study on
controlling hydrogen sulfide emissions at landfills using
autotrophic denitrification landfill biocovers.

$40,000 to the University of Wisconsin - Madison for a study on
the performance of alternative final covers through the exhu-
ation of test sections at various landfills in the United States.

$26,875 to the University of Illinois at Chicago for performing
geochemical monitoring of leachate recirculation and its effects
on waste degradation at the Orchard Hills Landfill.

$100,000 to the University of Manitoba, Canada, for an investi-
gation on the clolding of landfill leachate collection pipes and
cleaning strategies at the field- and full-scale.

$81,200 to the University of Central Florida for characterizing
spontaneous fires at municipal solid waste landfills.

$53,863 to Michigan State University to develop an estimation
of field-scale properties of bioreactor landfills for optimum per-
formance.

$49,000 to the U.S. Environmental Protection Agency (EPA) to
investigate the performance of full-scale bioreactor municipal
solid waste landfills.

$27,000 to the Solid Waste Association of North America
(SWANA) to develop a body of knowledge, a training course,
and a certification examination for managers of bioreactor
landfills.

$65,000 to the Environmental Protection Agency for the devel-
opment of an internet-based municipal solid waste decision sup-
port tool (DSIT) for North America.

$66,351 to Michigan State University for field-scale testing of
granular blankets for leachate recirculation and monitoring
hydraulic performance and temperature at bioreactor landfills.

$60,224 to the Environmental Industry Associations to develop a
training video for solid waste supervisors on how to reduce
employee injuries.

$53,945 to Geofyntek Consultants for defining the end of post-
closure care at municipal solid waste landfills.

$297,970 to R.D. Gibbs, LTD, Terra-Dynamics, Inc. and Severn
Trent Laboratories, Inc. for a landfill leachate sampling and
characterization study.

$300,000 to EPA to collect and test municipal solid waste landfill
gas as generated and after combustion.

DOCTORAL SCHOLARSHIPS approved or in progress in 2006:

$36,000 to Bryan Sable at North Carolina State University for stud-
ies on municipal solid waste degradation in landfills.

$36,000 to Susan DeLong at the University of Texas at Austin for
studies on bioremediation and biological treatment of pollu-
tants to degrade them and waste materials.

$24,012 to Shazheen Attari at Carnegie Mellon University for stud-
ies on packaging and its ultimate impact on the municipal solid
waste stream.

$24,012 to Monica Donan-Schaffer at the University of British
Columbia for a mass balance evaluation of polybrominated
diphenyl ethers used as flame retardants.

POST-DOCTORAL

$36,000 to Nicole Benge at Tufts University conducting research on
groundwater remediation and continuing research on the nitrifi-
cation/denitrification of bioreactor landfills.

$24,012 to Solenne Grellier at the University of Illinois for studies on
the dynamic water balance and geotechnical stability of biore-
actor landfills.

DONORS

We are pleased to recognize the companies and individuals who have made substantial commit-
tments to EREF:

CHAIRMANS CIRCLE CLUB
(donations of $250,000.00 or more)

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tries
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Buntrock Foundation
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We would like to thank the following donors for their gener-
ous support of EREF:

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E-Z Pack

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DONORS