

**Chairman**

Ronald J. McCracken  
*President*  
*Bes-Pac, Inc.*

**Vice Chairman**

Donald F. Moorehead, Jr.  
*Chairman and CEO*  
*Highland Holdings, Inc.*

**President**

Michael J. Cagney  
*Environmental Research and*  
*Education Foundation*

**Secretary-Treasurer**

Robert P. Stearns, P.E., DEE  
*Chairman*  
*SCS Engineers*

**Directors:**

Norm Aardema  
*President*  
*Michigan Waste Services, L.L.C.*

Robert C. Duncan  
(Director Emeritus)\*  
*President and CEO*  
*Duncan Holding Company*

Ted Flood  
*President and CEO*  
*International Baler Corporation*

Thomas E. Graedel, Ph.D.  
*School of Forestry and Environmental*  
*Studies*  
*Yale University*

Deborah Hockman, Ph.D.  
*Senior Vice President of Operations*  
*Silliker Laboratories, Inc.*

Leonard E. Joyce, Jr. P.E.  
*President*  
*Joyce Engineering, Inc.*

Frederick E. Leach  
*President and CEO*  
*Leach Company*

Brenda M. Mathison  
*Vice President*  
*Guardian, Inc.*

Jacques Petry  
*Chairman and CEO*  
*SITA*

Lonnie C. Poole, Jr.  
*Chairman and CEO*  
*Waste Industries, Inc.*

William B. Terry  
*Chief Operating Officer*  
*Rumpke Consolidated Companies*

Charles E. Williams  
*Senior Vice President*  
*Waste Management, Inc.*

*Pledges as of December 31, 2001*

**Chairman's Circle Club**

*(donations of \$250,000.00 or more)*

Dean L. and Rosemarie Buntrock  
Foundation  
Heil Environmental Inc. \*\*  
Leach Company \*\*  
Mack Trucks, Inc. \*\*  
McNeilus Truck and  
Manufacturing Company \*\*  
Donald F. Moorehead, Jr.  
SITA  
Volvo Truck North America \*\*  
Waste Management, Inc.

**Platinum Club**

*(donations of \$100,000.00 to*  
*\$249,999.00)*

Lawrence Beck  
Tom Bowen  
Andy Crawford  
Robert C. Duncan\*  
General Waste, Inc.  
George W. Fennell  
Harris W. Hudson  
Marathon Equipment Company \*\*  
McClain E-Z Pack \*\*  
Dwight Schaubach  
Waste Industries, Inc.

**Gold Club**

*(donations of \$50,000.00 to \$99,999.00)*

Norm Aardema  
Allied Waste Industries  
Joseph Anstett  
Bes-Pac, Inc. \*\*  
Ave Maria Carite  
Centres de Recherches et d'Essais  
Charles Cattaneo\*  
EDCO Disposal Corporation  
Groot Industries, Inc.  
H. Wayne Huizenga  
William Hulligan  
David Hyman  
International Baler, Inc. \*\*  
Joyce Engineering, Inc.  
George Moorehead  
Philadelphia Tramrail, Inc.  
Bruce Ranck  
Republic Services, Inc. \*\*  
Resource Management  
Companies  
Harold Rubenstein  
W. Tom Sawyer, Jr.  
SP Industries, Inc. \*\*  
Robert Stearns

*\*deceased*

*\*\*auction donor*

**EREF Environmental Research and Education Foundation**

4301 Connecticut Avenue, NW, Suite 300, Washington, DC 20008  
Telephone: 202.364.3789 Fax: 202.364.3788  
Website: www.erefndn.org Email: mcagney@envasns.org

ENVIRONMENTAL  
RESEARCH  
AND EDUCATION  
FOUNDATION

*Developing  
environmental  
solutions through  
research and  
education*

EREF





*Ronald J. McCracken  
Chairman of the Board*



*Michael J. Cagney  
President*

The year 2001 was a modest one for the EREF relative to the previous five years due primarily to a \$500,000 loss in investment income. Total revenue for the year was \$1,172,546 against expenses of \$1,158,961 for a net of only \$13,585. At the close of the year, the foundation's net assets were \$7,954,817. This represents a very small gain over net assets of the foundation at December 31, 2000.

Benchmarks achieved during 2001 include:

- Seven grants totaling \$1,449,211 were approved for funding
- A very successful auction at WasteExpo in Chicago grossed \$662,750 – in the seven year run of this event, over \$4 million has been raised
- The inaugural Environmentalist of the Year Award gala was held in Washington, DC in June to honor Earth Force of Alexandria, Virginia – in the future the proceeds from this event will fund additional projects
- The foundation awarded two scholarships and now funds four full scholarships for Ph.D. environmental scientists

*Building the Legacy* General Campaign Chairman Don Moorehead reports that we closed 2001 having raised \$1.2 million in cash, equipment, and new pledges. We are on track to successfully culminate the \$8 million campaign on schedule at June 30, 2003.

*Ronald J. McCracken  
Chairman of the Board*

*Michael J. Cagney  
President*

## The following projects were approved in 2001:

\$185,000 to URS Dames & Moore (UK) for research related to the regulatory, economic, and technical aspects of greenhouse gas emission reductions in the waste industry

\$38,211 to Case Western Reserve University for development of electronic odor technology that will provide a fingerprint for and determine concentration of landfill odors

\$100,000 to the Institute for Systems Biology for improvement of yeast strains to produce ethanol through fermentation of waste

\$50,000 award for the Environmentalist of the Year – **Earth Force**

\$25,000 to Drexel University for a study to characterize landfill microbiology using landfill gas

\$215,000 to SCS Engineers for a study to use a biological landfill cap to reduce emissions from MSW landfills

\$500,000 to Michigan State University for a bioreactor landfill project at Waste Management Inc.'s (WMI) Harrison Township Landfill (MI); WMI has donated the use of the site as well as other costs related to the construction of the bioreactor, the cash funding for this project was acquired through a congressional appropriation and EREF will pursue another appropriation of \$1 million to complete the project in 2004

\$56,330 to the Environmental Industry Associations (EIA) (in conjunction with the Occupational Safety and Health Administration's (OSHA) Susan Hardwood Training Program) to extend development and training sessions on reducing ergonomic risks to the solid waste employee

EREF's production of the video *BURY, BURN, OR RETURN: WINNING THE WAR AGAINST WASTE* was completed by Kurtis Productions (Chicago). In 2002, this film and an accompanying lesson plan will be offered free of charge to 42,230 middle school science teachers throughout the United States

Two Fiessinger Scholarships totaling \$64,000 were awarded in 2001:

- the first to Alexander Orlov who is enrolled in the Ph.D. program at Cambridge University (UK). He is our first international scholar. He is researching the development of new photo-catalytic methods for groundwater clean up.

- the second to Richard Statom who is studying for his Ph.D. at the Colorado School of Mines on the effects of age, design, and operational practices on the evolution of leachate chemistry from MSW.

These two scientists join Molly Costanza at the University of Arizona and Rob Klee who has completed his Ph.D. in Industrial Ecology and is now studying environmental law at Yale University School of Law.

## MISSION

The mission of the foundation is to develop environmental solutions for the future through research and education.

## VALUES

The foundation values scientific discoveries and applied research that advances state-of-the-art waste service for the ages; we value relationships and diversity, we are a meeting ground for waste generating industries, environmental industries, and the general public; we value technological innovation to push forward our knowledge base and to promote safe working conditions for waste service employees and the protection of the general public; we value education as a tool to increase the public's understanding of what we do and how we do it; we award scholarships for Ph.D. environmental scientists to advance our future by advancing their future.

## VISION

Our vision for donors is that we are a new industry, and the foundation is a bridge to invest in technology and a knowledge base that will help companies to understand and anticipate changes. Our vision for grantees is that we are a large, dynamic industry with many research opportunities, and we want to solve important problems with large impacts.

The foundation's refuse equipment auction conducted at WasteExpo in Chicago grossed \$662,750. Over the course of seven years, the auction has raised more than \$4 million for research and education projects and foundation operating expenses.



**Equipment and services for the 2001 charitable auction were donated by:**

- Bayne
- Bes-Pac, Inc.
- Galbreath, Inc.
- Heil Environmental Industries, Inc.
- International Baler Corporation
- Jim Johnston
- Leach Company
- Mack Trucks, Inc.
- Marathon Equipment Company, Inc.
- McClain/EZ-Pak
- McNeilus Truck Manufacturing Company
- Perkins Manufacturing Company
- Lonnie C. Poole, Jr.
- SP Industries, Inc.
- Volvo Trucks North America
- General Purpose Steel Company (Pittsburgh, Pa.) sponsored the pre-auction reception.
- Ritchie Brothers Auctioneers continued to donate their services for the auction.



*Left to right: Ron McCracken, Tom Van Weelden, Secretary of Energy Spencer Abraham, Tom Martin*

The foundation held its inaugural "Environmentalist of the Year" Award gala on June 26 at the Ronald Reagan Building and International Trade Center in Washington, D.C. Earth Force, a national non-profit based in Alexandria, Virginia, was the first recipient of this prestigious award. The award was based on their achievements in

public education related to resource recovery, processing, reuse or disposal.

Earth Force is committed to young people changing their communities while developing life-long habits of active citizenship and environmental stewardship. Since its founding just a decade ago, Earth Force has worked with over 100,000 youth from all over the United States.

The Honorable Spencer Abraham, Secretary of Energy, presented Tom Martin, president of Earth Force, with a faceted, engraved crystal award, and Tom Van Weelden, chairman and CEO of Allied Waste Industries (Scottsdale, Ariz.), in company with EREF Chairman Ron McCracken, gave Martin a check for \$50,000.

Attendees included chief executive officers, spouses and guests from waste service companies, senior executives from corporations that support the activities of Earth Force, legislators, and representatives from the financial community. Grammy Award-winning artist Crystal Gayle, accompanied by her band, capped the evening's celebration with a stunning performance. Allied Waste Industries sponsored the dinner.

Based on the success of the inaugural event, the "Environmentalist of the Year" Award is expected to become a coveted and sought after recognition, receiving international acclaim and bringing significant visibility to the vital work performed by the foundation.

## Board News

The annual meeting of the Board of Directors was held in Alexandria, Virginia on November 2, 2001.

New board members elected are:

**Robert J. Riethmiller, Jr.**  
*President and Chief Executive Officer  
Philadelphia Tramrail Company*

**Kevin Walbridge**  
*Regional Vice President - Central Region  
Republic Services, Inc.*



## Annual Meeting of the Board of Directors.

*Back, bottom to top: Ron McCracken, Michael J. Cagney, Tom Graedel, Lonnie Poole, Ed Repa (EREF). Middle, bottom to top: Robert Stearns, Deborah Hockman, Don Moorehead, Fred Leach, Liz Leith (EREF). Front: Anne Brauer (EREF).*

## SUMMARY OF INCOME AND EXPENSES FOR CALENDAR YEAR 2001

### INCOME:

Pledges	\$981,144
Auction(net)	337,200
Projects	204,050
Other	147,388
Investments	(497,236)
	<hr/>
TOTAL	\$1,172,546

### EXPENSES:

Projects	\$642,870
Administration	309,738
Fundraising	70,307
Other	136,046
	<hr/>
TOTAL	\$1,158,961

*A copy of our 2001 financial statements, audited by BDO Seidman, LLP, is available on request.*

**EREF**



*The Environmental Research and Education Foundation is a non-profit organization as defined by IRS code, Section 501(c)(3). Contributions are tax deductible to the full extent permitted by law.*