

FROM THE PRESIDENT
MICHAEL J. CAGNEY



Hello everyone,

In the last issue of the newsletter I mentioned that the EREF board had instructed me to conduct a planning study to determine the feasibility of a new capital campaign.

Over the course of the following four months EREF staff conducted personal interviews and the results indicated that while a capital campaign is the right thing for the foundation to do to increase its funding of projects, the timing is not. You told us that before the development program is to start you wanted more information about EREFs mission, where we are now, and where we hope to be in fulfilling our mission.

I have decided that your concerns are an opportunity to capitalize on – at the very least we will meet with many, many people over the course of the next year and have the chance to personally address our communication difficulties with them. Before that process begins however, the first thing we will do is develop what the non-profit world calls a Case Statement – in the private and public sector it is called a prospectus.

Careful preparation of EREFs case statement can solve most of our communication difficulties. The case statement is a summation of EREFs history, tradition, and goals. It is the first step in a comprehensive development program and serves as a basis to prepare all communication materials (brochure, video presentation, etc.).

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Big Winners Found in Vegas

EREF's 11th Annual Auction at WasteExpo



Mitch Covington, Leach Company; Lonnie Poole, Jr., Waste Industries; and Gary Seybold, Ritchie Brothers get ready for the action.

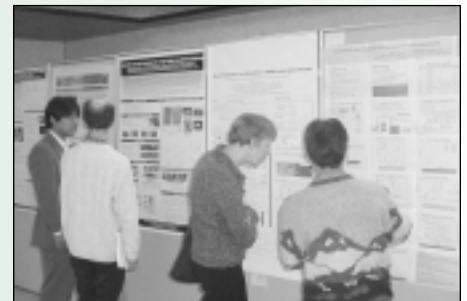
ed: the Absolute Refuse Auction, Silent Auction and Charity Raffle.

Why let what goes on in Las Vegas, stay in Las Vegas, when you could bring it home? That was the attitude of the bidders and participants at the foundation's Absolute Refuse Equipment Auction at WasteExpo the evening of May 4th, as bidders bid rapidly and generously on a collection of trucks, equipment, and trips. Over \$740,000 was raised during the EREF events, which included:

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Intercontinental Landfill Research Symposium

The Third Intercontinental Landfill Research Symposium (ICLRS), held in Lake Toya Japan, was attended by 96 participants from 18 countries. EREF had significant representation with both scholars and grant recipients participating. Dr. Jeremy Morris (GeoSyntec), Professor Mort Barlaz, Ph.D. (North Carolina State University), and Nicole Berge (University of Central Florida) report.



continued on page 6

We've Moved!

Pull out the address books, our office location has changed!

Please delete 120 S. Fayette St. (OLD) and replace with:

EREF

901 N. Pitt Street, Suite 270

Alexandria, VA 22314

Phone, Fax and Email have all stayed the same.

Please feel free to contact us at:

703-299-5139 (phone) 703-299-5145 (fax) www.erefdn.org



Auction Excitement Swells at WasteExpo *Continued from page 1*

It was a lively scene – bidder numbers popping up and down like popcorn, the auctioneer calling out at a mile-a-minute, a congregation enjoying the reception and bar, and onlookers cheering the action. The EREF showed Las Vegas a good time while Las Vegas visitors generously participated in the charitable auction events, contributing to scientific research and education in their industry. The EREF annual live Absolute Refuse Equipment Auction allowed both donor and bidders to go home winners. Winning bidders were thrilled to have the ready-to-use equipment at their fingertips, and donors expressed pleasure and satisfaction in being able to further the mission of the foundation. Everything from front and rear loader refuse trucks to a set of golf clubs was auctioned off by the Ritchie Brothers auctioneer Gary Seybold. The equipment auction is

the EREF's largest fundraiser of the year.

A silent auction has also become part of the fun in recent years. A unique collection of sports memorabilia, sought-after event tickets, and leather jackets adorn a table that is open for written bids. Just before the live auction, the bidding closes, and the highest written bid takes home the prize. Among the collection this year were prime Notre Dame tickets, a Cannon digital camera, autographed footballs, a chain saw and much more. If you have a unique connection to tickets or an item that could be donated to the next year's silent auction, please contact Sarah Stancliff at 703-299-5139 x10.

A huge thanks to all participants: donors, bidders, raffle ticket purchasers, advertisers and volunteers, without whom these events would not be possible!



WASTEC Donor: Leach Company



WASTEC Donor: Bayne Thinline Premium Lift Systems



WASTEC Donor: Scott Dols, Trucks and Parts of Tampa



WASTEC Donor: Cascade Engineering



WASTEC Donor: Galbreath, Inc., Pioneer Cover-All, and Mack Trucks



WASTEC Donor: Wastequip



WASTEC Donors: Refuse Parts, O'Brian Manufacturing, LaneScan LLC



WASTEC Donor: Schaefer Systems International

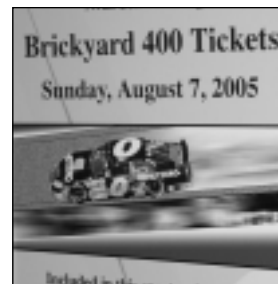


WASTEC Donor and Reception Sponsor: Perkins Manufacturing Co.



WASTEC Donor: Heil Environmental

WASTEC Donor: Otto Environmental Systems



NSWMA Donor: Kevin Walbridge, Republic Services, Inc.



WASTEC Donors: AutoCar LLC, and McNeilus Truck & Manufacturing



WASTEC Donor: PTR Baler and Compactor



NSWMA Donor: Lonnie C. Poole, Jr., Waste Industries, Inc.

FROM THE PRESIDENT

continued from page 1

“Development” in the context of non-profits such as EREF, involves fundraising, but actually it is much more. Development is the vital process of creating an understanding and agreement among our internal and external publics concerning EREF’s mission and goals. A comprehensive communications program is the start for this understanding and awareness and the cornerstone of the communications program is the CASE STATEMENT.

The case statement is a document that states the well researched arguments that express an internal consensus on the EREF’s reason for existence. The point is, if our case is to be effective externally, we must agree internally that it is our ethos.

RAFFLE WINNER

Congratulations Republic Service employee Tom Miller, of Arlington, TX for winning the highly sought after vintage 1955 Chevy Pickup! The pickup and matching Coca-cola seating trailer were raffled off as part of EREF’s auction events at WasteExpo in Las Vegas. The EREF grossed over \$43,000 to be used for upcoming projects. Thanks to all raffle ticket purchasers for their participation. Stay tuned for our exciting 2006 auction item!



Tom Miller (left) is congratulated by EREF President Michael Cagney

I have recently sent a draft of our Case to the EREF board of directors for their input and once they have finished their work, we will be in touch with you. This is a significant job for us at EREF – to develop a com-

prehensive communications program to reach out to all who care about research and science as it applies to the treatment of municipal solid waste.

THANK YOU FOR YOUR CONTINUED SUPPORT AND GENEROSITY! EREF REFUSE EQUIPMENT AUCTION, SILENT AUCTION AND CHARITY RAFFLE

EIA MEMBER EQUIPMENT, SERVICES, & MISC. ITEMS

Ameri-Kan (WASTEC Member)
Autocar LLC (WASTEC Member)
Bayne Premium Lift Systems (WASTEC Member)
BOMAG (WASTEC Member)
Cascade Engineering (WASTEC Member)
Chris Weiser, CRAM-A-LOT/J.V. Manufacturing Company (WASTEC Member)
Galbreath, Inc. (WASTEC Member)
Heil Environmental Industries (WASTEC Member)
Labrie Equipment, Ltd. (WASTEC Member)
LaneScan, LLC (WASTEC Member)
Leach Company (WASTEC Member)
Lonnie C. Poole, Jr., Waste Industries (NSWMA Member)
Mack Trucks, Inc. (WASTEC Member)
McNeilus Truck & Manufacturing (WASTEC Member)
O'Brian Manufacturing Company (WASTEC Member)
Otto Industries (WASTEC Member)
Perkins Manufacturing (WASTEC Member)
Pioneer Cover-All (WASTEC Member)
Primedia (WASTEC Member)

PTR Baler and Compactor (WASTEC Member)
Ron McCracken, RJM Waste Equipment (WASTEC Member)
SP Industries (WASTEC Member)
Schaefer Systems International, Inc. (WASTEC Member)
Trucks & Parts of Tampa (WASTEC Member)
Wastequip (WASTEC Member)
Waste Management (NSWMA Member)
Kevin Walbridge, Republic Services, Inc. (NSWMA Member)

OTHER DONATIONS AND SUPPORT

Ritchie Brothers Auctioneers
GES Exposition Services
Waste Equipment Technology Association (WASTEC)
National Solid Waste Management Association (NSWMA)
Environmental Industry Association (EIA)
EREF Auction Advisory Committee
Volunteers: Alice Jacobsohn (EIA), Phil Headley (EIA), Mark Glazer (EIA), Marc Acompora (Primedia), Barbara Barto, Christy Pierce
Grabber Construction Products

Matt Noce, Tournament Committee, Inc.
Thomas Van Weelden
Petty Enterprises
Dale Earnhardt, Inc.
Dallas Cowboys Charities
Baltimore Ravens
All Auction bidders, Raffle ticket purchasers, and Event attendees

GRATIS ADVERTISEMENT

Primedia Business Magazines
www.environmental-expert.com
The Hauler Magazine
Solid Waste Report
WASTEC's E-News
WASTEC's Industry News (EIA Publication)
WasteAge Magazine



FROM THE CHAIRMAN ROBERT P. STEARNS, P.E., DEE

EREF IS A WINNER IN LAS VEGAS!



Very few people go to Las Vegas with the expectation that they will leave with more money than they arrived with. There are exceptions to this generally accepted rule certainly, but nothing comes close to the revenue brought home by the Environmental Research and Education Foundation on May 4, 2005. Thanks to generous equipment donations from members of the Waste Equipment Technology Association (WASTEC), the 11th auction at the Wastexpo trade show for the benefit of EREF raised \$742,843!

Cumulatively WASTEC members over the last eleven years have donated equipment to the EREF valued at \$7 million. This is surely one of the largest charitable auctions in the United States and it underscores the high regard that donating companies and their executives hold for empirical research in the treatment of municipal solid waste; which is the focus of EREF's work.

We are very grateful for the generous support and concern of all our donors, a list of whom you will find on the back of this newsletter. Of course we always welcome additions to our list, how about a check from you today?

Going...going....gone.

Don't let another auction slip by without getting in on the action. Be a part of the auction events at WasteExpo 2006 New Orleans - it's just around the corner.



FROM THE CHAIRMAN OF THE NOMINATING COMMITTEE LONNIE C. POOLE, JR.



Knowing that we can look forward to new vision and fresh perspective, we welcome an addition to the board with enthusiasm. As we attempt to continually improve waste management practices, our goals are closer to being reached with each committed leader who joins us.

We are pleased to announce the election of Henri Saint Bris, Senior Vice President, Suez Environment NA (New Jersey) to Director, and the re-election of Robert J. Riethmiller, Lonnie C. Poole, Jr., Chairman Robert P. Stearns, Vice Chair Kevin Walbridge, and Treasurer Paul Mitchener, with terms to expire on December 31, 2007.

Henri is a well-received addition to the board, bringing with him valuable experience and expertise in water, air, and solid waste. He worked with Sita (Suez's waste management division and one of the major founders of EREF) from 1996 to 2001 as the Vice President of Strategy and Development and Director of International Affairs. Among his duties there was coordinating the acquisition of all non-US operations of BFI. His international work makes him a particularly unique member, and we look forward to his contribution and input.

HENRY SAINT BRIS SENIOR VICE PRESIDENT - SUEZ ENVIRONNEMENT NORTH AMERICA



Henry Saint Bris is presently chairman of Sita Canada and responsible for managing United Water's contract services operations in its Atlantic Division. Among the business units he oversees are the collection and treatment operations of solid and industrial waste in the Canadian provinces of Quebec and Ontario as well as municipal water systems in many cities in the US including Springfield, MA, Camden, NJ and Orange, NJ.

Saint Bris joined Suez, United Water's Paris-based parent company, in 1996 and has held positions of increasing responsibility since he joined the organization. Most recently, he served as Vice President of Strategy and Development at Suez Environnement headquarters. He was before Director of International affairs and Vice President of Strategy and Development for Sita, the company's global waste services division. His areas of expertise within the Suez Group have focused on strategy, international development, acquisitions, divestments and restructuring.

Prior to joining Suez, Saint Bris spent seven years with Ernst & Young where he was a Senior Manager for the Strategy and Consulting Group and Founder of the E&Y Environment Group in France. Saint Bris also gained marketing and sales experience with Aerospatiale in New Delhi and Paris.

He holds a diploma from Institut d'Etudes Politiques de Paris (economy and finance) and an M.B.A. from Université Paris IX Dauphine. Saint Bris also holds a post graduate degree in Environment Management and Engineering from Ecole des Mines de Paris.

He is a co-author of the Guide to Corporate Citizenship (Dunod).

PROJECT UPDATES

GREENHOUSE GASES IN THE WASTE MANAGEMENT INDUSTRY

In June, URS Corporation completed research on the development of best practices for reducing greenhouse gases (GHG) generated by the waste management industry. In order to accomplish this, URS investigated the:

- Regulatory framework for GHG emissions and reductions, and the consequences of such, for the waste management industry. This aspect established the need for planning for the implementation of the Kyoto Protocol in a number of countries and provided a summary of current and future regulations that may impact the waste management industry and identified their consequences.
- Technical aspects that contribute to GHG emissions within the waste management industry. Modeling studies were performed that examined the effects that waste management strategies, involving recycling, waste-to-energy, composting, and landfill gas management, have on GHG emissions in two world regions (North America/ Western Europe and Asia).
- Economic viewpoint that involved the review of the current international carbon credit markets and how the markets evolved in several countries. This aspect also considered the financial opportunities, in a qualitative manner, and the opportunities for deriving additional value from landfill gas utilization projects in Central Europe by exploring country-specific policy developments in waste management, green energy markets, and GHG emissions management.

The research report is available for \$15 on CD from EREF by contacting Sarah Stancliff at 703-299-5139 ext 10.

BE SAFE, BE PROUD – AT THE LANDFILL

In May, the National Solid Wastes Management Association (NSWMA), under a U.S. Occupational Safety and Health Administration grant through EREF, completed production of a 20-minute video on preventing injuries and fatalities to landfill employees. The video was shot at one of the largest landfills in the United States and shows real landfill operations. The video was debuted at WasteExpo to some 200 attendees.

The training video is available in VHS or DVD format in English for \$89.00 by contacting NSWMA's publication department at 800-424-2869. Proceeds from the sale of the video will be used to develop further health and safety information, which now contains another safety training video for solid waste collection employees.

WORKSHOP ON THE DECOMPOSITION OF WOOD AND PAPER PRODUCTS IN LANDFILLS

The North Carolina State University held a workshop on May 24-25 to develop strategies and methodological principles to guide future research into the decomposition of wood and paper products in U.S. and Australian landfills. The objective of the workshop was to develop realistic estimates of methane production and carbon sequestration from individual wood and paper products that are buried in landfills. Experts from both the U.S. and Australia were invited to attend the workshop.



Dr. Mort Barlaz, North Carolina State University and Dr. Mark Nanny, University of Oklahoma.

HONORARIUMS AND MEMORIALS

William H. Sells

(father of Bill Sells)
Michael J. Cagney

Walter Norrington

(father of Penny Orth)
Michael J. Cagney

The due date for mention of your honorariums or memorials in our upcoming fall issue is September 1, 2005.

Call 703-299-5139 x10 for a donor form or download at www.eref.org/donor.pdf

EREF CALENDAR

August 2

Technical Symposium
Indianapolis, IN

August 3-4

Board Meeting
Indianapolis, IN

SAVE the DATE!

October 18

Golf Tournament
Heron Bay, TPC
Coral Springs, FL

Watch for invitation or call
703-299-5139 x 10 for details.

The first two days of the workshop were devoted to presentations on the subject, while the third day was devoted to the excavation of wood and paper products from two local landfills. After 20-years of burial, both wood and paper products were excavated in good condition, a similar find confirmed by excavations at Australia landfills. The excavations demonstrated that even after more than 46 years carbon loss from decomposition was only 1.4 to 305 percent.

For further information on the workshop, contact Dr. Morton Barlaz, Professor and Associate Head, Department of Civil, Construction, and Environmental Engineering, North Carolina State University at 919-515-7676.

THE EREF IS REPRESENTED AS CONTINENTS CONVENE

Third Intercontinental Landfill Research Symposium 29 November – 3 December 2004, Lake Toya, Japan

Dr. Jeremy Morris, EREF Grant Recipient, GeoSyntec Consultants

Symposium Overview

The EREF was well represented in its efforts to both glean and give valuable information at the 3rd Intercontinental Landfill Research Symposium (ICLRS). Hosted by the University of Sapporo, ICLRS was attended by 96 participants from 18 countries and held at the beautiful resort town of Lake Toya on the island of Hokkaido in northern Japan. Three days of concurrent sessions dealt with a large number of landfill research activities including:

- measuring the rate of solids loss for specific wastes in landfills
- the behavior of organic contaminants in landfills
- mechanisms and processes associated with the leaching of combustion ash as well as ash utilization
- sustainable landfill practices in the U.S., Japan and Europe
- risk assessment as it applies to landfills
- techniques for the measurement of methane emissions from landfills
- methane oxidation in landfill cover soils and in engineered treatment systems
- bioreactor design, instrumentation and monitoring
- aerobic landfills
- long-term landfill management

Additional information can be found at the symposium website at <http://st.sb.luth.se/iclrs/web/symposia.html> (ICLRS).

Session on Long-Term Landfill Management and Post-Closure Care

This session was chaired by Dr Jeremy

Morris of GeoSyntec Consultants and Dr. Mort Barlaz of North Carolina State University (both EREF grant recipients). Most international MSW landfill regulations (e.g., the U.S. Subtitle D regulations) specify a 30-year (or similar) post-closure monitoring period unless this period is extended by the regulatory agency on a site-specific basis. The implication is that monitoring will be discontinued after 30 years because the landfill is stable and no longer represents a threat to the environment.

However, technical criteria with which to define stability are lacking. This lack of criteria will make it difficult for regulators to make decisions to either extend or reduce the post-closure monitoring period. The need for criteria on stability is further intensified by the increased interest in the operation of landfills as bioreactors, in which waste decomposition is accelerated. Partly in response to defining operational 'end-points' for bioreactors, it has been suggested that defining stability should go further than simply attempting to meet a set of (probably unattainable) technical criteria. Alternative strategies and procedures for demonstrating 'landfill stability', in which a landfill is considered to be in a stable situation when it no longer presents an unacceptable threat to the environment, have been proposed, for example by the Solid Waste Association of North America (SWANA) Bioreactor Committee. The acceptance and application of these alternative approaches for defining stability will have considerable implications for long-term landfill management and post-closure care.

Participants

A paper presenting an EREF-funded research project was delivered by Dr. Morris during the second session. The



paper, entitled "*Case study application of a performance-based system for post-closure care at its MSW landfills*", presented results from test applications of a new performance-based system for evaluate post-closure care (PCC) at MSW landfills in the U.S. This approach, which has been developed over the past 24 months, represents a more realistic and environmentally protective strategy for the management of closed landfills than does the current time-based approach under Subtitle D of the Resource Conservation and Recovery Act (RCRA) of 1991.

The new approach will enable a landfill site owner/operator to proactively identify landfill management practices that can best mitigate environmental risk over the long-term, and encourage landfill design and operation to focus on reducing post-closure impacts. Each aspect of PCC required under Subtitle D (i.e., operation of a leachate collection system, landfill gas management, groundwater monitoring and protection, and cap maintenance) is evaluated sequentially using a modular system. All evaluation procedures are based on conservative assumptions, and findings require rigorous demonstration by means of verification and surveillance monitoring before any action to modify existing PCC conditions can be taken. The system also allows for multiple outcomes in which the PCC requirements for each module may be different. The paper was very well received and provoked lively discussion.

ICLRS REPORT

Dr. Mort Barlaz, EREF Grant Recipient, North Carolina State University:

I had the opportunity to describe the recent work at the Outer Loop landfill to evaluate a biologically active cover to mitigate landfill emissions, a project supported by EREF and Waste Management Inc. In addition, I was able to present the work of EREF Fellow Bryan Staley on NMOC and trace organic emissions associated with decomposing refuse.

I led a workshop to evaluate methodologies to measure the decomposition rate for specific wastes in landfills. At present, there is little information on the rate and extent of decomposition of individual waste components under field conditions. As countries and industries attempt to inventory their greenhouse gas emissions, information on the behavior of a wide range of forest products, including various types of paper and wood, is needed. The objective of this session of the ICLRS was to discuss the design of experiments to measure solids decomposition and methane production rates for specific waste components that are relevant to full-scale landfills. The discussion focused on sampling strategies as well as the limitations of both field work and laboratory-scale work. Ultimately, some combination of field and lab work will be required. A follow-on workshop was held at North Carolina State University in May, 2005 to develop a more detailed experimental design and to try to identify potential sources of funding.

The ICLRS also serves as a meeting point for several important solid waste related activities. The Associate Editors of the journal Waste Management, met before the ICLRS started, as did the Science Advisory Board to the International Waste Working Group. The Consortium for Landfill Emissions Abatement Research (CLEAR) held a two-day workshop after the meeting at Hokkaido University in Sapporo.



The EREF Annual Board of Directors meeting was held in Alexandria, VA in December.

Pictured left to right are: (back) Kevin Walbridge, Lonnie Poole, Ron McCracken, Henri Saint Bris, Ed Repa, (front) Bob Stearns, Michael Cagney, Debbie Reinhart and Paul Mitchener.

SARAH STANCLIFF

The Environmental Research and Education Foundation (EREF) welcomes recently promoted Sarah Stancliff as the Director of Development and Communications. Sarah has been with the foundation since September, 2004 and is greatly enjoying her induction into the waste business.



Sarah has a B.A. from Brigham Young University in Public Relations. She has worked with the Public Relations Society of America, the American Red Cross, the Salt Lake City 2002 Olympics, and was most recently involved in marketing work with Netgateway, Inc. before accepting the position with the EREF.

Sarah is excited to further the mission of the EREF and grateful for the generous support shown to the foundation by board members, donors, and those concerned with the future of the solid waste industry. Please feel free to contact her at: 703-299-5139 x10; sstancliff@erefdn.org

ICLRS REPORT

Nicole Berge, Francois Fiessinger Scholarship Recipient, University of Central Florida:

My advisor, Dr. Reinhart, and I had an amazing time at the conference. We were able to talk with other researchers from around the world about our research, as well as experience the Japanese culture first hand.

Seeing researchers from over 15 countries at this conference, provided an exciting opportunity to learn how other places around the world were managing their waste and to hear their research interests and experiences. The conference was organized to allow for both presentations and discussion in each session. There were several sessions in which bioreactor landfills were discussed. Dr. Reinhart presented work concerning moisture measurement data from sensors tested at a bioreactor site at the New River Regional Landfill. Dr. Reinhart also participated in a session in which she talked about the US perspective on waste management.

I presented my results to date on my work (funded in part by EREF) involving in-situ nitrification studies in a session called Aerobisation of Landfills. I talked about the high ammonia removal rates we are observing in our studies and how the rate of removal may be correlated nitrification rates, as well as the implications of my results to field-scale operation. In this session, researchers from Germany and Japan also presented their work from aerobic landfills. In Germany, they add air to old landfills, serving more as a remediation or polishing step in their operation. They have mentioned nitrogen concentrations being a concern to them, so it was a great experience to be able to share our results and ideas with one another.

Donors Who Have Made Substantial Financial Commitments as of June 1, 2005

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

Allied Waste Industries
Dean L. and Rosemarie
Buntrock Foundation
Environmental Industry
Associations
Heil Environmental Inc.
Leach Company (Federal Signal
Environmental
Mack Trucks, Inc.
Marathon Equipment Company
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U. S. Department of Energy
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Waste Management, Inc.

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PTR Baler and Compactor, Inc.
Bruce Ranck
Resource Management
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RJM Waste Equipment
Company
Harold Rubenstein
W. Tom Sawyer, Jr.
SP Industries, Inc.
Robert Stearns

SILVER CLUB (donations of \$25,000.00 to \$49,999.00)

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Galbreath, Inc.
General Purpose Steel
Homewood/Nu Way Disposal
Service, Inc.
J. V. Manufacturing Company
Ronald McCracken
Palo Alto Sanitation Company
Toter, Inc.
Wastequip
Eugene Wingerter
Zarn, Inc.

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Bayne Thinline Premium Lifts
Systems
Tom Conrad
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Goodyear Tire
Harris Waste Management
Group, Inc.
IESI
Kim Kawasaki
K-PAC Division, Krause Corp.
Nu-Life Environmental, Inc.
O'Brian Manufacturing
Company
Marshall Rabins
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