

**FROM THE PRESIDENT  
MICHAEL J. CAGNEY**



The EREF is the only independent foundation in the U.S. dedicated to research and science related to municipal solid waste. I believe that we are on

the right track in fulfilling our mission, but much remains to be done.

The stock market doldrums have adversely affected all of us—in the case of the foundation, we are not generating much income from our investments and consequently we have very little to spend on projects.

To position the foundation to better meet this revenue shortfall challenge, I have been asked by the EREF board of directors to conduct a planning study to determine the feasibility of beginning a new capital campaign.

Over the next couple of months EREF staff Sarah Stancliff, Rich Spiegel and I will be conducting personal interviews crucial to the planning study process—the confidential information provided will help the EREF board to make an informed decision as to whether we go forward or not.

If you are contacted, I hope that you will cooperate because it directly affects the future objectives of YOUR foundation—the EREF! Many thanks in advance for your assistance.

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## EREF EVENTS IN DALLAS ROUND-UP FUN AND FUNDS!

Thanks to the generosity of our 2004 refuse equipment and silent auction donors, and more than 60 registered bidders, the

Foundation raised \$766,000 during its events at WasteExpo in Dallas—\$50,000 more than last year.

*Continued on pages 2-3*



## 2004 GOLF TOURNAMENTS A SWINGING SUCCESS

More than 150 players and sponsors joined EREF this year for its scramble tournaments to benefit municipal solid waste research and education. The June event was hosted by Groot Industries and Homewood Disposal Service, Inc., and the October event by Allied Waste Industries and Republic Services, Inc..



Land of Lincoln Tournament Champions, left to right are Tim Graeb, Bob Stearns, Frank Hillemonds, and Lee Brandsma (Details on page 10)



Fall Classic Champions left to right are Kerry Holmes, Gary Lima, Tom Van Weelden (host), Mike Hambarian, and Adam Hambarian (Details on page 10)

# AUCTION AND RAFFLE

*Continued from page 1*

EREF's WasteExpo events commenced with a silent auction, which opened Monday, May 17 to allow exhibitors a chance to view the items up for bid. Collectibles and must-have items ranged from autographed professional sports memorabilia (NASCAR stats sheets, players caps, footballs, etc.) to leather jackets and vests with company logos, a remote controlled trash truck, a chain saw, a ladies leather satchel, a digital camera, and a Corvette style office chair.

A pre-auction reception with open bar, sponsored by Perkins Manufacturing Company, began at 5:00 p.m. on Wednesday, May 19, and was followed

by the main auction event. This year's donations from EIA member companies (Waste Equipment Technology Association [WASTEC] and National Solid Wastes Management Association [NSWMA]) included front and rear loader refuse trucks, hoists with tarping systems, commercial and residential containers, lift systems, a professional toolbox/drawer set, a container delivery trailer, a 2-day fishing trip, tickets and executive seats to a NASCAR event, USA leather jackets, a Corvette office chair, and a 1955 Buick Super Convertible (frame off restoration).



WASTEC Donor and Reception Sponsor: Perkins Manufacturing Co.



WASTEC Donor: Barker Products



WASTEC Donor: Otto Industries



A Silent Auction raised approximately \$12,000 for EREF's initiatives.



WASTEC Donor: Schaefer Systems International, Inc.



WASTEC Donor: Stellar Industries



WASTEC Donor: Bayne Premium Lift Systems



WASTEC Donors: Leach Company; Autocar LLC



NSWMA Donor: Allied Waste Industries



WASTEC Donors: Galbreath; Pioneer Cover-All



WASTEC Donors: Marathon Equipment; Mack Trucks; O'Brian Manufacturing Co.



WASTEC Donor: Wastequip



WASTEC Donor: Cascade Engineering Group



NSWMA Donor: Kevin Walbridge, Republic Services, Inc.—NASCAR Brickyard 400 tickets



NSWMA Donor: Lonnie C. Poole, Jr., Waste Industries, Inc.—Two days of off-shore fishing



WASTEC Donor: RDK Truck Sales & Rental



WASTEC Donor: Oshkosh/McNeilus



Michael Cagney (EREF President, left) congratulates Hugh Fagan

## CONGRATULATIONS HUGH FAGAN!

Hugh was the lucky winner of the 1965 Corvette Stingray Coupe, which was raffled off during the 2004 WasteExpo events in Dallas. Thanks to those who participated, the EREF grossed over \$46,000 in charitable raffle proceeds to fund solid waste research and education projects and general operating expenses.



SEE DETAILS OF OUR 2005 RAFFLE PRIZE, A 1955 CHEVY PICKUP! ON PAGE 7



Michael Cagney (EREF President, right) thanks Sponsor

## SPECIAL THANKS TO OUR ART CONTEST ENTRIES AND SPONSORS!

Armadillos abounded at WasteExpo this year. Local high school students participated in an art contest, which required the artists to create their version of an armadillo using recycled materials. Many thanks to our sponsors Community Waste Disposal (Dallas), Dallas Mack & Volvo, L.P., and PTR Baler and Compactor Co. who rewarded such creativity and skill!

## THANK YOU—DONORS, BIDDERS AND RAFFLE TICKET PURCHASERS—FOR YOUR CONTINUED GENEROSITY AND SUPPORT OF OUR AUCTION AND CHARITY RAFFLE FUNDRAISERS

### MAJOR EQUIPMENT AND OTHER DONATIONS TO THE MAIN AUCTION EVENT

Allied Waste Industries (NSWMA)  
 AutoCar Truck (WASTEC)  
 Barker Products (WASTEC)  
 Bayne Premium Lift Systems (WASTEC)  
 Cascade Engineering (WASTEC)  
 Galbreath (WASTEC)  
 Heil Environmental (WASTEC)  
 Leach Company (WASTEC)  
 Mack Trucks (WASTEC)  
 Marathon Equipment Company (WASTEC)  
 O'Brian Manufacturing Company (WASTEC)  
 Oshkosh/McNeilus (WASTEC)  
 Otto Industries (WASTEC)  
 Perkins Manufacturing Company (WASTEC)  
 Pioneer Cover-All (WASTEC)  
 Lonnie C. Poole, Jr., Waste Industries, Inc. (NSWMA)  
 RDK Truck Sales & Rental (WASTEC)  
 Schaefer Systems International (WASTEC)  
 Stellar Industries (WASTEC)  
 Kevin Walbridge, Republic Services (NSWMA)  
 Wastequip (WASTEC)

### SILENT AUCTION DONATIONS AND OTHER SUPPORT

Ameri-Kan (WASTEC)  
 AutoCar Truck (WASTEC)  
 Baltimore Ravens Foundation for Families

Art Duzinski, Republic Services Inc., (NSWMA)  
 Dale Earnhardt, Inc.  
 John Deere Construction and Forestry Division (WASTEC)  
 Kenworth  
 Leach Company (WASTEC)  
 Mack Trucks (WASTEC)  
 Michelin North America Inc. (WASTEC)  
 MJD Enterprises  
 Penske Racing  
 Peterbilt Motors Co.  
 Petty Enterprises  
 Bill Price  
 Rudco Products, Inc. (WASTEC) and RPI Designs  
 Screen Graphics of Florida (WASTEC)  
 SP Industries (WASTEC)  
 Sterling Truck Corp. (WASTEC)  
 Trucks and Parts (WASTEC)  
 Chris Weiser, Cram-A-Lot/J.V. Manufacturing (WASTEC)

### OTHER EVENT SUPPORT AND GRATIS ADVERTISING

Primedia  
 Ritchie Bros. Auctioneers  
 Freeman Decorating  
 Waste Equipment Technology Association (WASTEC)  
 National Solid Wastes Management Association (NSWMA)  
 BioCycle Magazine

environmental-expert.com  
 igive.com  
 legacy.com  
 McEntee Media Corp.  
 MSW Management Magazine  
 My Little Salesman Catalogs  
 Recycling Today  
 Refuse News  
 Resource Recycling Magazine  
 Solid Waste & Recycling Magazine  
 Solid Waste Report  
 The Hauler Magazine  
 Tri-Fab Metals, Inc.  
 VetteSite.com  
 WASTEC's Equipment Technology News  
 Waste Industry News (EIA Publication)  
 Waste Management World  
 Waste Recovery Report  
 WasteAge Magazine  
 Wellspent.org

### SPECIAL EVENT SPONSORS - HIGH SCHOOL ART PROJECT

Community Waste Disposal (Dallas)  
 Dallas Mack & Volvo, L.P.  
 PTR Baler and Compactor Co.

### VOLUNTEERS

Brooke Stuckey (Energy Developments, Inc.),  
 Phil Headley, Bill Sells and  
 Alice Jacobsohn (EIA)

**TAKE ADVANTAGE OF A YEAR-END CHARITABLE TAX DEDUCTION WITHOUT EVEN WRITING A CHECK!**

Donate your unwanted vehicles (cars, trucks, commercial vehicles, motor homes) to EREF. Our program administrator takes care of pickup and processing. You receive a charitable tax deduction\* based on the fair market value of your donation. Call for a donation form (703-299-5139) or download it at [www.erefndn.org/forms/vehicle\\_donation/pdf](http://www.erefndn.org/forms/vehicle_donation/pdf)

**\*Benefits of donating before January 1st:**

Provisions have recently been approved by Congress which will affect used-vehicle donations (part of HR 4520). The law limits a donor's income-tax deduction for a donated car, truck, boat, or airplane to the amount a charity received after selling it. Charities are required to supply receipts to donors stating how much the vehicles were sold for. The car donation provision takes effect January 1. Until then, donors are allowed to deduct a car's fair market value based on estimates in used-car price guides, as long as the car is valued at less than \$5,000. Donors who give cars worth more than that are required to obtain appraisals.



**Thanks to recent vehicle donors Y. Kantor, and Michael Lhevan! Your generous donation benefits important solid waste research and education.**

*\*Donations tax deductible to the full extent of the law*

**BOARD NEWS**



**FROM THE CHAIRMAN**

**ROBERT P. STEARNS, P.E., DEE**

It's that time of year again!

Just as "sustainability" is becoming a central theme of our industry, EREF also needs longer-term, more predictable financial support to accomplish its educational and research goals.

Between now and December 31, help EREF to continue developing environmental solutions for the future – the future of the waste service industry, our society, and the environment itself.

EREF must become sustainable because it is the ONLY nonprofit, independent funding source for scientific research and technological innovation focused on municipal waste issues; because it serves as a neutral meeting ground for all sides of strategy discussions; and because it will help shape the next generation of industry leaders as well as the public's perception of solid waste management.

Just two outstanding examples of EREF's work: its partnership with Michigan State University and the US Department of Energy to design a bioreactor landfill and quantify its emissions; and our continuing work with OSHA to reduce transportation fatalities in the waste industry. We believe such long-term, high-impact projects are worthy of your financial support.

As a 501(c)(3) charitable organization, EREF has established The Eagle Club to encourage you and your company to join our sustaining gifts program. We are asking you to commit to a five-year pledge of \$1,000 a year. Along with a "match" you can get from employers and co-workers (whether in your company or others), your tax-deductible gift will give EREF a jump start toward a sustainable position of strength.

Just fill out and send in the form below by December 31 to begin your commitment with \$1,000.

Thank you for your leadership role in the waste service and environmental industries, and for considering support for EREF by the end of 2004.

If you want more information on the opportunities and benefits of giving to EREF, just call 703.299.5139. Please give what you can. Mail a gift today that really counts!

**PLEASE FILL OUT THIS FORM, CUT OUT AND MAIL WITH YOUR CHECK TODAY!**

**THE EAGLE CLUB**

I pledge a gift of \$5,000 to EREF, to be paid \$1,000 per year between 2004 and 2008.

Check enclosed (payable to EREF)

Name \_\_\_\_\_

Credit Card # \_\_\_\_\_

Expiration Date \_\_\_\_\_ Locator Code \_\_\_\_\_  
*(See signature line on back of card)*

Signature \_\_\_\_\_ Date \_\_\_\_\_



## PROJECT UPDATES

### SOLID WASTE INDUSTRY DRIVER SAFETY

In May, the U.S. Occupational Safety and Health Administration (OSHA) approved the National Solid Wastes Management Association's (NSWMA) safety training video for solid waste collection employees titled *Be Safe, Be Proud*. NSWMA is a Foundation contractor producing ergonomic information for the waste industry.



The video is currently available in both English and Spanish and presents the principles of safe driving and waste collection to prevent injuries and fatalities of employees. The training videos are available from NSWMA's publication

department (202.244.4700) at a cost of \$29 per copy plus shipping and handling.

In September, OSHA awarded the Foundation additional funds to develop a training video for solid waste employees on how to reduce injuries and fatalities at solid waste facilities (e.g., municipal solid waste landfills). This video is scheduled for completion before September 2005.

### GLOBAL RECYCLING MARKETS

In September, North Carolina State University completed work on a study that: 1) Developed an understanding of the policies and markets driving recycling activity in 14 countries (Germany, Belgium, The Netherlands, Luxemburg, Italy, Spain, United Kingdom, Finland, United States, Australia, Japan, Hong Kong, Singapore, and Brazil) and 2) Provided recommendations on how to strengthen recycling markets.

Copies of the overall summary of the study and individual country reports are available in pdf on CD from EREF by contacting Sarah Stancliff at 703.299.5139 ext. 10.

### BIOLOGICALLY ACTIVE LANDFILL COVERS

In August, the results of EREF's investigation into the use of biologically active landfill covers to reduce air emissions from municipal solid waste landfills were published in the peer reviewed journal *Environmental Science and Technology*. The study, a cooperative project between SCS Engineers, Waste Management Inc., and North Carolina State University, found that biologically active covers could be used as an intermediate cover to reduce air emissions when gas collection and control systems are not in place, when gas collection systems have not been extended to a particular area of a landfill, or when the gas system is inoperable.

Copies of the report summarizing the investigation are available by contacting Sarah Stancliff at 703.299.5139 ext.10.

### TWO NEW RESEARCH PROJECTS APPROVED FOR FUNDING

At its spring meeting, the EREF Board approved funding of \$92,000 for two new projects.

The majority of the funding (\$65,000) went to the U.S. Environmental Protection Agency (EPA) for the development of an internet-based municipal solid waste decision support tool (DST) for North America. The DST was developed by EPA in cooperation with EREF a number of years ago to examine the environmental effects of municipal solid waste management decisions. However, the tool has not been available for use by the public because of federal budget shortfalls.

The second project approved for funding (\$27,000) was submitted by 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. The project builds on SWANA's existing educational program for managers of municipal solid waste landfills.

### LEACHATE RECIRCULATION BLANKETS BEING TESTED



Shredded Tires Blanket



Crushed Recycled Glass Blanket

At Waste Management's McGill Landfill in Jackson, Michigan, three permeable leachate injection blankets made up of crushed glass, shredded tires, and a geocomposite drainage material were constructed in the Summer of 2003. These blankets have been instrumented with over 50 embedded sensors to collect data on the water content, pressure, temperature, vertical stress, and leachate flow within the blanket. These are collected using an automated data logging system.

Since construction, about two million gallons of leachate have been recirculated in the landfill. This

approach to managing leachate offers significant economical and environmental benefits. Permeable blankets offer better hydraulic efficiency compared to conventional leachate recirculation methods such as horizontal trenches and vertical wells.

Data collected from the blankets indicate that leachate pressures in the blanket, along with the other parameters, were strongly related to the degree of saturation and the hydraulic properties of the landfilled waste. Because hydraulic properties of the waste are expected to change as waste stabilizes, such instrumented blankets can be used to capture changes in the hydraulic properties of waste. Prof. Milind V. Khire at Michigan State University is currently developing guidelines for the design and construction of such blankets and the data collected from the instrumented blankets will be used to estimate the degree of stabilization of the waste for bioreactor landfill operators.

## NEW FIESSINGER SCHOLARSHIP WINNERS

On August 19th the Board of Directors awarded its 2004 Fiessinger Scholarships. This year, two students were awarded funds to further their research: Bryan Staley, a Ph.D. student enrolled in the Environmental Engineering program at North Carolina State University, and Nicole Berge, a Ph. D. candidate at the University of Central Florida pursuing Environmental Engineering.



Bryan Staley

Mr. Staley's research is in the general area of refuse decomposition in landfills. He is currently finishing a project measuring the production of non-methane organic

compounds (NMOCs) from landfills experiencing different operating conditions. The primary thrust of Mr. Staley's Ph.D. research relates to microbial aspects of refuse decomposition. The aim of the research will be to assess reasons for microbial population shifts over time, evaluate the importance of such shifts and determine how such findings may be employed to enhance refuse decomposition and maintain healthy microbial populations.

Mr. Staley is a registered Professional Engineer and worked in consulting for seven years prior to enrolling at NCSU. He holds a Master's degree in Biosystems Engineering from the University of Tennessee at Knoxville and a B.S. in Biological and Agricultural Engineering from N.C. State University.



Nicole Berge

Ms. Berge's research focuses on furthering the understanding of the fate of nitrogen in bioreactor landfills. Her aim is to work on the development of an in-situ nitrogen

removal technique, which would be an attractive alternative to costly and difficult ex-situ treatment, potentially yielding both economic and environmental advantages. She plans to determine kinetic rates of nitrogen removal, as well as an indication of the conditions necessary for the processes to occur, providing the data necessary to enable and guide field-scale implementation.

Ms. Berge received both a B.S. and M.S. degree in Civil and Environmental Engineering from the University of South Carolina in 1999 and 2001, respectively.

## UPDATE

# FRANCOIS FIESSINGER SCHOLARSHIPS

Scholarships are awarded by EREF to recognize excellence in Ph.D. or post-Doctoral environmental research and education. Awards are given in memory of Francois Fiessinger, Ph.D., P.E., a graduate of Rutgers University, who was a founding director of EREF. Dr. Fiessinger passed away at age 53 on March 11, 1997.

## SCHOLAR REPORTS

### MR. MICHAEL SANDER

Yale University

New Haven, CT. USA

(2003 Fiessinger Scholarship Winner)



Mr. Sander's Ph.D. research focuses on irreversible sorption of organic contaminants in soils and sediments. Irreversibility is manifested by (i)

hysteresis in which the contaminant shows stronger affinity for the solid during a desorption event than it did during the initial sorption, and (ii) the 'conditioning effect' in which the contaminant shows stronger affinity for a solid in a second sorption cycle. Over the last year, he tested the hypothesis that sorption irreversibility in macromolecular natural organic matter results from irreversible expansion of micropores in the solid by entering contaminant molecules.

Sander derived a thermodynamically based index to calculate irreversibility. This index quantifies the partial molar free energy of contaminant that is irreversibly lost to deformation of sorbent micropores. While indices to quantify hysteresis have been published, their use is restricted because they are empirical and require specific model assumptions.

Sander developed a <sup>14</sup>C-isotope exchange technique to differentiate between artificial hysteresis (i.e., due to experimental artifacts) and true hysteresis. The technique involves monitoring the uptake of a minute amount of <sup>14</sup>C-labeled chemical following both bulk contaminant sorption and desorption. The technique was applied to the hysteresis of naphthalene, a common pollutant, to a low-rank coal reference standard, which represents hard organic matter in soils and sediments. The results show that hysteresis is true and are consistent with irreversible deformation of the sorbent without the formation of an entrapped fraction.

Further supportive of the micropore-deformation hypothesis was Sander's observation of conditioning effects in a peat soil, a humic acid, and a glassy synthetic organic polymer using chlorinated benzenes as model compounds. In a subsequent experiment, he exposed the conditioned peat soil and humic acid to elevated temperatures. In both cases, heat-treatment anneals (i.e., diminishes or –depending on the temperature and exposure time - even eliminates) the conditioning effect. This can be explained by assuming that the macromolecular backbone undergoes thermal relaxation towards structural equilibrium by reducing internal (micropore) volume. Synthetic organic polymers show the same behavior.

Mr. Sander expressed gratitude for the financial support of EREF, which allowed him to present his work at several international conferences.

*Continued on page 7*

**Did you know you could specify that your Honorarium or Memorial contribution be applied to EREF's scholarship program?**

When completing your personalized Honorarium or Memorial (see page 6), simply check the box labeled "Fiessinger Scholarship Program".

Continued from page 5

**RICHARD A. STATOM**  
**Colorado School of Mines**  
**Golden, CO. USA**  
**(2001 Fiessinger**  
**Scholarship Winner)**



In the final year of Statom's research supported in part by the EREF Francois Fiessinger Scholarship, 12 years of

leachate data from seven lined cells at a municipal solid waste (MSW) landfill located in Palm Beach County, Florida were investigated to determine temporal trends and spatial variations in leachate chemistry at the site. This work is a continuation of previous investigations into temporal changes in leachate chemistry (Environmental Geology, 2004, Vol. 45, # 7) and leachate

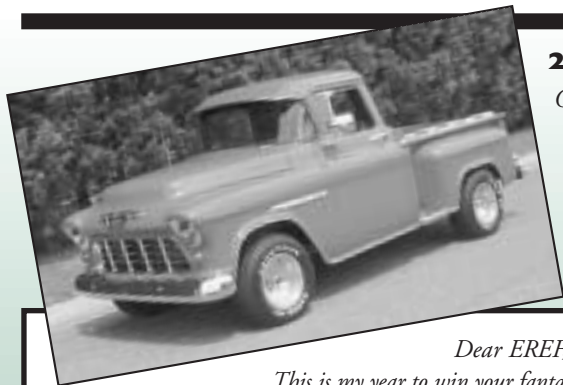
transport within the landfill (Geological Society of America Annual Meeting, paper # 186-5).

In this third phase of the study, leachate chemistry at seven contiguous but temporally separable landfill cells was evaluated. The results indicated that the leachates in the seven cells were similar, but spatial variations related to the age of the waste in the cell were evident; with the younger cells having generally higher contaminant concentrations than the older cells. Overall declining or stable trends for major leachate constituents were observed in the cells as the waste aged, with the exception of the youngest cell. The youngest cell showed increasing trends for several constituents during the study period, but an initial increasing trend when a landfill cell is first operated followed by a decreasing trend as the waste ages is typical for landfills. There was also a relationship noted between leachate contaminant concentration and cumulative rainfall totals, such that increased rainfall levels precede lower contaminant

concentrations. This response to rainfall is found in all of the cells investigated, regardless of the age of the cells.

The flow regime within the landfill was determined to be one in which the majority of the leachate flows along preferential flow paths through the landfill, called a dual-domain system. This type of flow regime is very similar to those found in structured soils, and effectively isolates the leaching processes to a small portion of the cell. It was found that these preferential flow paths can change location over time and may cause leachate quality to change dramatically over the life of the landfill.

This work has provided some significant insights into the inner workings of MSW landfills, especially in the semi-tropical environment of Florida. Future work will investigate if the temporal trends, spatial variations, and flow regime found at the Florida landfill are typical for landfills in other parts of the country.



**2005 CHARITY RAFFLE AT WASTEEXPO IN LAS VEGAS**

Continued from page 3

**WIN THIS VINTAGE 1955 CHEVY 3100 PICKUP AND FEEL YOUR HEART BEAT!**

Dear EREF,

*This is my year to win your fantastic prize—a '55 Chevy Pickup! Please process \_\_\_\_\_ ticket(s) for me for the 2005 Charity Raffle. Enclosed is my payment (checks to be drawn on a U.S. bank) for \$\_\_\_\_\_ to cover \_\_\_\_\_ ticket(s) (limit of 10 tickets per person, \$100 per ticket). I'll see you at WasteExpo in Las Vegas on Wednesday, May 4.*

\_\_\_\_\_  
NAME

\_\_\_\_\_  
ADDRESS

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CITY

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STATE

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ZIP

\_\_\_\_\_  
TELEPHONE

\_\_\_\_\_  
FAX OR EMAIL

CREDIT CARD    \_\_\_ VISA    \_\_\_ MASTERCARD    \_\_\_ DISCOVER    \_\_\_ AMEX

\_\_\_\_\_  
EXP. DATE

\_\_\_\_\_  
CARD NO.

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
LOCATOR CODE (see signature line on back of card)

\_\_\_\_\_  
BILLING ADDRESS

**This beauty comes with:**

- Complete nut and bolt restoration
- 355cid/360hp Chevrolet V-8
- Turbo 400 automatic transmission
- Posi-traction rear differential
- Mirror finish Matador red
- New gray tweed interior w/dual power seats
- Polished stainless steel bed
- Power windows
- Correct spinner hubcaps w/wide white wall
- Power steering
- Dakota digital dash w/full gauges
- \$8K Matching Coca-Cola® trailer w/seating

Join us for our annual charity raffle at WasteExpo in Las Vegas. Only 500 tickets will be sold—just \$100 each! Drawing takes place on Wednesday, May 4, 2005—EREF Exhibit Space, Las Vegas Convention Center, Las Vegas, Nevada - following our waste equipment absolute auction. Limit 10 tickets per person.

**WINNER NEED NOT BE PRESENT**

Tickets for our Charity Raffle are now available—call 703.299.5139, visit our website for a downloadable ticket order form at [www.erefndn.org/raffle.html](http://www.erefndn.org/raffle.html), or fax the form at left to 703.299.5145.

## HONORARIUMS AND MEMORIALS

### MEMORIAL GIFTS:

**Mrs. Gourdis Ziegler Soules Jackson**

(Sandra Rolston's Mother)

**Michael J. Cagney**

### HONORARIUMS:

**The Boston Red Sox—For breaking the curse, winning the World Series, and especially for beating the Yankees**

**Sarah Stancliff**

**Fred Leach, Thank You!**

**James H. Hastings**

The next due date for mention of your Honorariums or Memorials in our spring issue is April 1, 2005.

## EREF CALENDAR

**December 9-10, 2004**

Annual Meeting of the Board  
Alexandria, VA.

**May 4, 2005**

11th Annual Refuse Equipment Auction, Charity Raffle and Silent Auction at WasteExpo, Las Vegas, NV

**2005 Golf Tournaments**

Dates and Venues - TBD



**Start planning for your donations to**

**our waste equipment and silent auctions at WasteExpo '05, to be held on May 4th at the Las Vegas Convention Center.**

**Call us today—  
703.299.5139 x10.**

## EREF AND YOU—

### REMEMBERING YOUR LOVED ONES, FRIENDS, COLLEAGUES AND EMPLOYEES ...

Pay tribute to someone special and at the same time give back to your industry! Support the foundation and its funding of waste and recycling research and education by means of a contribution\* in honor of a personal milestone or award, or in memory of a beloved family member or friend.

Honorariums and memorials (text only) will be printed in our newsletter, with a copy being sent to each donor and honoree. For contributions of \$250 or more, an acknowledgment and Certificate of Support will be provided to the donor.

Please make your contribution payable in U.S. dollars (checks to be drawn on a U.S. bank) to "EREF" and send it with the completed form below to: Environmental Research and Education Foundation, 120 S. Fayette Street, Alexandria, Virginia 22314.

*\* Tax deductible to the extent allowed by law.*

### DONOR INFORMATION: (please print or type)

FULL NAME

STREET ADDRESS

CITY

STATE

ZIP

CONTACT TELEPHONE (Include area code)

EMAIL

### PAYMENT:

CHECK ENCLOSED

DISCOVER

VISA

MASTERCARD

CARD NUMBER

CARD EXPIRATION DATE

US \$ AMOUNT

SIGNATURE

LOCATOR CODE (see signature line on back of card)

APPLY TO RESEARCH EDUCATION

APPLY TO FIESSINGER SCHOLARSHIP PROGRAMS

### TYPE OF TRIBUTE:

IN MEMORY OF

IN HONOR OF

FULL NAME/NICKNAME

TYPE OF HONORARIUM (Birthday, Wedding, Retirement, etc.)

FAMILY MEMBER TO RECEIVE DONATION ACKNOWLEDGEMENT

FULL NAME/NICKNAME

STREET ADDRESS

STREET ADDRESS

CITY

CITY

STATE

ZIP

STATE

ZIP

*Support EREF this holiday season by shopping at  
iGive.com or Wellspend.org!*

iGive.com offers online access to more than 400 name brand stores, such as Lands' End, Bass Pro Shops, Office Depot, Barnes & Noble, Swiss Army Central, and Petco. You'll get the variety you deserve with the satisfaction of making a year-end donation to a charity whose solid waste research and education benefits you and your community. iGive.com often offers free shipping and discounts, as well.

- Log on to iGive.com and click on "Join Now".
  - Under "Find a cause to support" type "EREF" and select.
  - Complete your membership information then shop 'til you drop.
- Can't find what you want at iGive.com? Give Wellspend.org a try.

Wellspend.org offers well-known brands like Coleman, DeLonghi, Bosch, and IBM.

- Log on to Wellspend.org and type "EREF" in the white "Find A Cause" box in the upper right.
- Click "Go", then click the "Support This Cause" button to the right of EREF's name and follow the directions to select your items for purchase.
- Finish with "Proceed To Checkout" to complete the transaction.

EREF will receive notification of your contribution after your order is processed.

# DECIDING HOW TO GIVE

BY JOHN FEDALEN

Investors of all types are often faced with the decision of how to give to a charitable organization of their choice. Just as there are a variety of reasons why people choose to donate to charity, there are several ways to go about making your donation. For the most part, you can donate to charity in three main ways:

- Donate cash or property directly to the charity of your choice
- Establish a private foundation
- Donate assets to a donor-advised fund

If you donate directly to a charity, there is some flexibility as to what you can donate. In addition to cash and investments, many charities accept donations of used household items, clothing or cars. When you donate assets directly to a charity, you are in complete control. You choose the charity and what to donate. Along with this control comes the added responsibility of researching the charity, if this is important to you. Some charities have larger operating expenses than others. If you will be donating directly to a charity, it would be your responsibility to determine if you are comfortable with the percentage of your donation that is used to operate the charity. Along with feeling good about helping others, donations to charity usually allow you to take a deduction on your income taxes. Be sure to consult with a tax professional when deciding if your donation qualifies for a tax deduction.

Establishing a private foundation can be a wonderful way to include your entire family in your philanthropic goals. When you establish a foundation, you will need to work with an experienced financial advisor, as there are specific regulations and some complicated tax rules that must be followed. Like a direct donation, those who establish a private foundation are in complete control. You can choose which charities receive donations and when they receive them. Most investors looking to establish a private foundation have at least \$1 million to devote to the foundation.



John is a Financial Advisor of Legg Mason Wood Walker, Inc., a diversified securities brokerage and financial services firm that is a member of the New York Stock Exchange.

You could also choose to donate assets to a donor-advised fund. How do donor-advised funds work? A public charity sponsors a fund that investors can donate assets to. Then, the charity administers the fund. Investors advise the fund when they would like to make a grant to a particular charity. Unlike direct donations, you can only advise the fund how to distribute your donation. The fund makes the final decision. As with other charitable gifts, donations to a donor-advised fund usually qualify for a deduction on your income taxes. The deduction can typically be taken the year that you donate to the fund, even if you have not made a decision regarding how to distribute your assets. Contributions to donor-advised funds can be made for as little as \$10,000 in some cases.

Donating to charity is a wonderful way to help others. In return, you usually receive some tax benefits as well as knowing that you were able to support a cause or organization you believe in. Be sure to work with a financial professional who can help you decide which method of giving is right for your individual circumstances.

The Research and Education Foundation is not a financial advisor. Please consult a financial advisor for advice. For further information please contact John Fedalen at 410-730-5055 or 888-318-5344.

## ITEMS OF NOTE

### ELIZABETH DOLE EVENT

On April 28, the EREF board of directors held a luncheon for Senator Elizabeth Dole (R-NC) at the Monocle Restaurant on Capital Hill in Washington, DC.

Senator Dole discussed the present political situation in the United States and the world. She was well prepared for the meeting and, to the surprise of many, very knowledgeable about issues that affect the waste management industry.



Deborah Hockman and Lonnie Poole greet senator Dole.



Senator Dole spoke to the board about issues relating to the waste industry.

### ENVIRONMENTAL STEWARDSHIP

Many thanks to the Virginia Waste Industries Association (VWIA) for donating \$250 towards the distribution of the foundation's documentary *Bury, Burn or Return: Winning the War Against Waste* to select middle schools in Virginia. The 45-minute program was accompanied by a secondary school lesson plan.

The support of the following companies and individuals made this tournament possible. EREF extends many thanks to:

**TOURNAMENT SPONSORS:**

Groot Industries and Homewood Disposal Service, Inc.

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Leach Company and Standard Equipment, Inc.

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Ron McCracken, RJM Waste Equipment Co.

**HIGHLIGHTS**

**LAND OF LINCOLN GOLF TOURNAMENT**

The homeland of one of America's favorite presidents was the scene of EREF's summer golf tournament this year. The Land of Lincoln Golf Tournament was held at the Edgewood Valley Country Club in Burr Ridge, IL on Monday, June 28, 2004. Hosted by Groot Industries (Lee Brandsma) and Homewood Disposal Service, Inc. (Tom Yonker), the tournament was a great success.

The event kicked off with a reception on Sunday evening hosted by Heil Environmental Industries, Inc. at the Amerisuites pool. Golfers were out early the next morning on the course, enjoying the challenging course and coming as close to a Hole-in-One as they could without getting one - very polite of everyone to leave the Corvette on the course. The awards reception and dinner were enjoyed by all; Champion and second place teams were congratulated with crystal commemoratives, while Longest Drive and Closest to the Pin winners took away pro shop gift certificates.



Kevin Walbridge, Larry Groot, Lee Brandsma, and John Garrity all had a terrific time, as did everyone else.



Michael Cagney congratulates Mark Clindaniel



"And here we have our lovely beverage cart and the Hole-in-one Corvette," says Rita Ugianskis

# ENVIRONMENTAL FALL CLASSIC



Enjoying the desert oasis

What hurricanes? Warm desert air in Scottsdale, AZ lent itself to beautiful conditions for the EREF Environmental Fall Classic tournament on October 13, 2004. With over 80 participants, meetings and greetings abounded as golfers from across the industry united in the name of supporting scientific research. A reception (sponsored by VOLVO) on Tuesday night brought a large gathering together to enjoy the desert air and congenial competition.

On the course, the "close, but no cigar" notion was disproved as the Hole-in-One prizes went unclaimed, but gourmet cigars abounded for all. The Corvette (Hole-in-one prize Hole #16) again stayed on the hill - just more motivation to hit the driving range before next year's events!

Many thanks to Allied Waste Industries (Tom Van Weelden) and Republic Services, Inc. (Jim O'Connor) for co-sponsoring the event. EREF extends thanks to all participating golfers and sponsors who made the event a success.



Second place winners Jerry Clark, Tom Van Weelden (host), Gary Silva, Mike Cordesman, and Jim O'Connor (host and winner)



Jim Cosman just after taking his Closest to the Pin winning shot. Lance Mason claimed the other Closest to the Pin prize



Sarah Stancliff congratulates Adam Hambarian on his Longest Drive win. He and Jeff Maxsom both won gift certificates to the Pro-Shop for their Longest drives

**Event and hole sponsors needed for 2005 golf tournaments! Includes special mention in all marketing materials and the official program. Call 703-299-5139x10 today!**

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Ron McCracken, RJM Waste Equipment Co.

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